

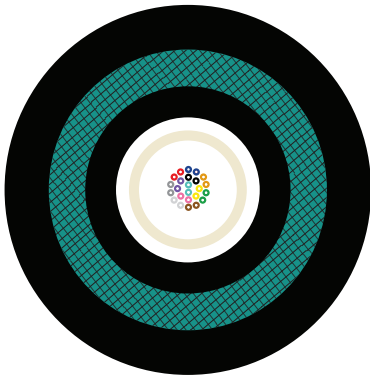
PRODUCT SPECIFICATIONS

Twin-Sheath Steel-Tape Armored Unitube Cables

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APPLICATION

Leviton Twin-Sheath Steel-Tape Armored Unitube cables offer up to 24 fibers in a compact cable construction. The range has been designed to offer enhanced mechanical properties over the Duct-Grade Unitube product range. The Twin-Sheath Steel-Tape Armored Unitube is suitable for direct burial applications and other campus backbone 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
- Customizable fiber selection including Single-Mode, OM1, OM3, OM4, OM5 and hybrid versions to suit a variety of applications
- Single gel-filled loose-tube to block the ingress of water
- Corrugated steel tape armor for superior mechanical crush and impact resistance and optimum rodent protection
- Twin-sheath design offers additional mechanical protection and installation options
- Available in a range of sheath materials to suit a variety of installation environments
- Halogen-Free Flame Retardant Low-Smoke (HFFR-LS) versions meet the requirements of the Construction Products Regulation (CPR) Euroclass Eca
- 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 (up to inner sheath only)

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TECHNICAL SPECIFICATIONS

Construction

Type of cable	Loose Tube
Jacket material	HFFR-LS

Usage Characteristics

Temp. (Storage):	-20 °C to +60 °C (-4 °F to +140 °F)
Temp. (Installation):	-10 °C to +60 °C (+14 °F to +140 °F)
Temp. (Operating):	-20 °C to +60 °C (-4 °F to +140 °F)

REACTION TO FIRE

Characteristics	IEC Standard	EN Standard	CPR Rated Product	External Product
Material Description	—	—	HFFR-LS	Polyethylene
Single Cable Flame Rating	IEC 60332-1-2	EN 60332-1-2	Pass	N/A - External Only
Classification / Euroclass	—	EN 13501-6	Eca	N/A - External Only

TECHNICAL SPECIFICATIONS

Fiber Count	Max. Long Term Load (N)	Max. Short Term Load (N)	Min. Static Bend Radius (mm)	Min. Dynamic Bend Radius (mm)	Max. Crush (N)	Max. Impact (Nm)	Max. Torsion (Turns $\pm 180^\circ$)	Nom. Tube Diameter (mm)	Nom. Cable Diameter (mm)	Nom. Cable Weight (kg/km)	
										LU	NM
2-12	300	1000	10x Cable Diameter	15x Cable Diameter	5000	20	5	2.9	11.4	158	126
16-24								4.0	12.4	182	145

OPTICAL PERFORMANCE

Fiber Identifier	008	108	208	062	OM3	OM4	OM5
IEC 60793 Reference	2-50-B1.3	2-50-B6_a	2-50-B6_a	2-10-A1b	2-10-A1a.2	2-10-A1a.3	-2-10 A1-OM5
ITU-T Recommendation	G.652.D	G.657.A1	G.657.A2	—	G.651.1	G.651.1	G.651.1
ISO/IEC 11801 Category	OS1a/OS2	OS1a/OS2	OS1a/OS2	OM1	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	≤ 0.38	—	—	—	—
Attenuation @1550nm (dB/km)	≤ 0.25	≤ 0.25	≤ 0.25	—	—	—	—

PACKAGING

Fiber Count	Material Identifier	Reel Size (flange x width mm)		Gross Weight (kg/reel)		Reels per Pallet	
		2km	4km	2km	4km	2km	4km
2-12	LU	1200 x 1200 x 690	1400 x 1400 x 800	453	815	1	1
	NM			389	686		
16-24	LU			500	908		
	NM			426	761		

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Twin-Sheath Steel-Tape Armored Unitube Cables

PART NUMBER CONFIGURATOR

Sample Part Number: [GF](#) [OM4](#) [UNI](#) [24](#) [L](#) [STA](#) [LU](#) - [Eca](#)

DESIGN	FIBER TYPE		CONSTRUCTION		FIBER COUNT	INNER SHEATH		ARMORING		OUTER SHEATH		EUROCLASS
GF	108	SM G657A1	UNI	Unitube	02	L	HFFR-LS	STA	Corrugated Steel Tape Armor	LU	HFFR-LS	Eca
	208	SM G657A2			04	NM	PE			NM	PE	
	062	MM OM1			06							
	OM3	MM OM3			08							
	OM4	MM OM4			12							
	OM5	MM OM5			16							
					24							

PART NUMBERS - CPR RATED	
Description	Part No.
4 Fiber Singlemode G.657.A1 - Twin Sheathed Steel Tape Armored Unitube, LSHF/LSZH, Euroclass Eca	GF108UNI04LSTALU-Eca
6 Fiber Singlemode G.657.A1 - Twin Sheathed Steel Tape Armored Unitube, LSHF/LSZH, Euroclass Eca	GF108UNI06LSTALU-Eca
8 Fiber Singlemode G.657.A1 - Twin Sheathed Steel Tape Armored Unitube, LSHF/LSZH, Euroclass Eca	GF108UNI08LSTALU-Eca
12 Fiber Singlemode G.657.A1 - Twin Sheathed Steel Tape Armored Unitube, LSHF/LSZH, Euroclass Eca	GF108UNI12LSTALU-Eca
24 Fiber Singlemode G.657.A1 - Twin Sheathed Steel Tape Armored Unitube, LSHF/LSZH, Euroclass Eca	GF108UNI24LSTALU-Eca
4 Fiber Multimode OM3 - Twin Sheathed Steel Tape Armored Unitube, LSHF/LSZH, Euroclass Eca	GFOM3UNI04LSTALU-Eca
6 Fiber Multimode OM3 - Twin Sheathed Steel Tape Armored Unitube, LSHF/LSZH, Euroclass Eca	GFOM3UNI06LSTALU-Eca
8 Fiber Multimode OM3 - Twin Sheathed Steel Tape Armored Unitube, LSHF/LSZH, Euroclass Eca	GFOM3UNI08LSTALU-Eca
12 Fiber Multimode OM3 - Twin Sheathed Steel Tape Armored Unitube, LSHF/LSZH, Euroclass Eca	GFOM3UNI12LSTALU-Eca
24 Fiber Multimode OM3 - Twin Sheathed Steel Tape Armored Unitube, LSHF/LSZH, Euroclass Eca	GFOM3UNI24LSTALU-Eca
4 Fiber Multimode OM4 - Twin Sheathed Steel Tape Armored Unitube, LSHF/LSZH, Euroclass Eca	GFOM4UNI04LSTALU-Eca
6 Fiber Multimode OM4 - Twin Sheathed Steel Tape Armored Unitube, LSHF/LSZH, Euroclass Eca	GFOM4UNI06LSTALU-Eca
8 Fiber Multimode OM4 - Twin Sheathed Steel Tape Armored Unitube, LSHF/LSZH, Euroclass Eca	GFOM4UNI08LSTALU-Eca
12 Fiber Multimode OM4 - Twin Sheathed Steel Tape Armored Unitube, LSHF/LSZH, Euroclass Eca	GFOM4UNI12LSTALU-Eca
24 Fiber Multimode OM4 - Twin Sheathed Steel Tape Armored Unitube, LSHF/LSZH, Euroclass Eca	GFOM4UNI24LSTALU-Eca
4 Fiber Multimode OM5 - Twin Sheathed Steel Tape Armored Unitube, LSHF/LSZH, Euroclass Eca	GFOM5UNI04LSTALU-Eca
6 Fiber Multimode OM5 - Twin Sheathed Steel Tape Armored Unitube, LSHF/LSZH, Euroclass Eca	GFOM5UNI06LSTALU-Eca
8 Fiber Multimode OM5 - Twin Sheathed Steel Tape Armored Unitube, LSHF/LSZH, Euroclass Eca	GFOM5UNI08LSTALU-Eca
12 Fiber Multimode OM5 - Twin Sheathed Steel Tape Armored Unitube, LSHF/LSZH, Euroclass Eca	GFOM5UNI12LSTALU-Eca
24 Fiber Multimode OM5 - Twin Sheathed Steel Tape Armored Unitube, LSHF/LSZH, Euroclass Eca	GFOM5UNI24LSTALU-Eca

PRODUCT SPECIFICATIONS

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PART NUMBERS - EXTERNAL

Description	Part No.
4 Fiber Singlemode G.657.A1 - Twin Sheathed Steel Tape Armored Unitube, External PE Sheath	GF108UNI04NMSTANM
6 Fiber Singlemode G.657.A1 - Twin Sheathed Steel Tape Armored Unitube, External PE Sheath	GF108UNI06NMSTANM
8 Fiber Singlemode G.657.A1 - Twin Sheathed Steel Tape Armored Unitube, External PE Sheath	GF108UNI08NMSTANM
12 Fiber Singlemode G.657.A1 - Twin Sheathed Steel Tape Armored Unitube, External PE Sheath	GF108UNI12NMSTANM
24 Fiber Singlemode G.657.A1 - Twin Sheathed Steel Tape Armored Unitube, External PE Sheath	GF108UNI24NMSTANM
4 Fiber Multimode OM3 - Twin Sheathed Steel Tape Armored Unitube, External PE Sheath	GFOM3UNI04NMSTANM
6 Fiber Multimode OM3 - Twin Sheathed Steel Tape Armored Unitube, External PE Sheath	GFOM3UNI06NMSTANM
8 Fiber Multimode OM3 - Twin Sheathed Steel Tape Armored Unitube, External PE Sheath	GFOM3UNI08NMSTANM
12 Fiber Multimode OM3 - Twin Sheathed Steel Tape Armored Unitube, External PE Sheath	GFOM3UNI12NMSTANM
24 Fiber Multimode OM3 - Twin Sheathed Steel Tape Armored Unitube, External PE Sheath	GFOM3UNI24NMSTANM
4 Fiber Multimode OM4 - Twin Sheathed Steel Tape Armored Unitube, External PE Sheath	GFOM4UNI04NMSTANM
6 Fiber Multimode OM4 - Twin Sheathed Steel Tape Armored Unitube, External PE Sheath	GFOM4UNI06NMSTANM
8 Fiber Multimode OM4 - Twin Sheathed Steel Tape Armored Unitube, External PE Sheath	GFOM4UNI08NMSTANM
12 Fiber Multimode OM4 - Twin Sheathed Steel Tape Armored Unitube, External PE Sheath	GFOM4UNI12NMSTANM
24 Fiber Multimode OM4 - Twin Sheathed Steel Tape Armored Unitube, External PE Sheath	GFOM4UNI24NMSTANM
4 Fiber Multimode OM5 - Twin Sheathed Steel Tape Armored Unitube, External PE Sheath	GFOM5UNI04NMSTANM
6 Fiber Multimode OM5 - Twin Sheathed Steel Tape Armored Unitube, External PE Sheath	GFOM5UNI06NMSTANM
8 Fiber Multimode OM5 - Twin Sheathed Steel Tape Armored Unitube, External PE Sheath	GFOM5UNI08NMSTANM
12 Fiber Multimode OM5 - Twin Sheathed Steel Tape Armored Unitube, External PE Sheath	GFOM5UNI12NMSTANM
24 Fiber Multimode OM5 - Twin Sheathed Steel Tape Armored Unitube, External PE Sheath	GFOM5UNI24NMSTANM

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

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