

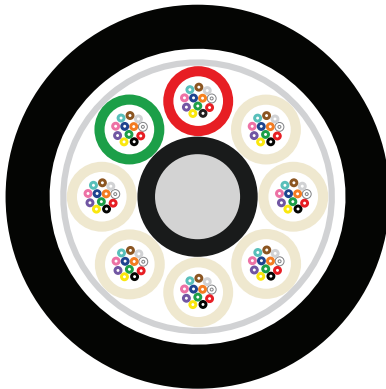
PRODUCT SPECIFICATIONS

Glass Yarn Armored Multi-Loose-Tube Cables

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APPLICATION

Leviton Glass Yarn Armored Multi-Loose-Tube Cables offer up to 216 fibers. The range offers enhanced rodent protection and mechanical properties over the Duct-Grade Multi-Loose-Tube product range. These cables are suitable for high fiber count internal/external duct, and internal cable tray installations in building and campus backbone applications.



COUNTRY OF ORIGIN

UK

WARRANTY INFORMATION

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

FEATURES & BENEFITS

- 12-216 fiber counts - up to 12 fibers per tube color-coded according to TIA-598-D
- Customizable fiber selection including single-mode, multimode and hybrid versions to suit a variety of applications
- Resin bonded glass central strength member for a flexible design with a high strength-to-weight ratio
- Stranded gel-filled loose-tubes with red and green marker reference for simplified tube identification
- Interstitially dry water-blocked design prohibits the ingress of water throughout the cable length
- Glass yarn armoring offers higher strength and enhanced rodent protection
- Available in a range of jacket materials to suit a variety of installation environments
- HFFR-LS (Halogen-Free Flame-Retardant Low-Smoke) versions meet the requirements of the Construction Products Regulation (CPR) Euroclass Eca

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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TECHNICAL SPECIFICATIONS

Construction

Type of cable	Loose Tube
Jacket material	HFFR-LS

Usage Characteristics

Temp. (Storage):	-40 °C to + 70 °C (-40 °F to +158 °F)
Temp. (Installation):	-10 °C to + 70 °C (+14 °F to +158 °F)
Temp. (Operating):	-40 °C to + 70 °C (-40 °F to +158 °F)

REACTION TO FIRE

Characteristics

Material Identifier	LU	LUHF3	NM
Material Description	Standard HFFR-LS	Enhanced HFFR-LS	PE - Polyethylene
Flammability Rating	IEC 60332-1-2	IEC 60332-3-24	—
Fire Euroclass EN13501-6	Eca	Eca	—
Acid Gas Emission	IEC 60754-2	IEC 60754-2	—

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 ± 180°)	Nom. Buffer Diameter (mm)	Nom. Cable Diameter (kg/km)	Nom. Cable Weight (kg/km)		
										LU	LUHF3	NM
12-72	1650	5500	10x Cable Diameter	15x Cable Diameter	2000	5	5	0.9	12.0	145	148	116
84-96									13.4	176	179	143
108-144									16.8	266	269	223
156-216									17.3	266	269	222

OPTICAL PERFORMANCE

Fiber Identifier	108	208	062	OM3	OM4	OM5
IEC 60793 Reference	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.657.A1	G.657.A2	—	G.651.1	G.651.1	G.651.1
ISO/IEC 11801 Category	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	—	—	—	—
Attenuation @1550nm (dB/km)	≤0.25	≤0.25	—	—	—	—

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PACKAGING						
Fiber Count	Reel Size (flange x width mm)		Gross Weight (kg/reel)		Reels per Pallet	
	2km	4km	2km	4km	2km	4km
12-72	1200 x 690	1400 x 800	2M + 137	2M + 183	1	1
84-96	1200 x 690	1700 x 915	2M + 137	2M + 313	1	Non-Palletized
108-144	1400 x 800	N/A	2M + 183	N/A	1	N/A
156-216	1400 x 800	N/A	2M + 183	N/A	1	N/A

Note: Refer to nominal cable weight for M.

FIBER OPTIC CABLE PART NUMBERING PLATFORM

Sample Part Number: GF OM4 S 24 W RR LU - Eca

DESIGN	FIBER TYPE		CONSTRUCTION		FIBER COUNT	WATER BLOCKING LAYER		INNER SHEATH		ARMORING		OUTER SHEATH		EUROCLASS
HF	108	SM G657A1	S	Multi Loose Tube	02	W	Water Swellable Tape	L	HFFR-LS	RR	Layer of Glass Yarns	LU	HFFR-LS	Eca
GF	208	SM G657A2			04			NM	PE			LUHF3	Enhanced HFFR-LS	
EF	062	MM OM1			06			STA	Corrugated Steel Tape Armor	LUFS	HFFR-LS Fire Survival			
		OM3			MM OM3							08		
		OM4			MM OM4							12		
		OM5			MM OM5							16		
												24		
												36		
		48												
		60												
		72												
		96												
		144												
		216												

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