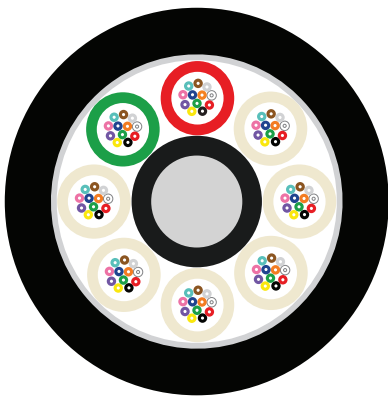


Duct-Grade Multi-Loose-Tube Cables

APPLICATION

Leviton Duct-Grade Multi-Loose-Tube Cables offer up to 216 fibers. The range offer a robust solution capable of withstanding standard installation practices. These cables are suitable for internal/external duct and internal cable tray installations in building and campus backbone applications where higher fiber counts are required.



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, OM1, OM3, OM4, OM5 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 to prohibit the ingress of water throughout the cable length
- Available in a range of sheath materials as standard 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
 - Polyethylene sheath for external applications

STANDARDS & REGULATIONS

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

PRODUCT SPECIFICATIONS

Duct-Grade Multi-Loose-Tube Cables

TECHNICAL SPECIFICATIONS

Construction

Type of cable	Loose Tube
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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)

PACKAGING - REELS

Fiber Count	Reel Size (flange x width mm)		Gross Weight* (kg/reel)		Reels per Pallet	
	2km	4km	2km	4km	2km	4km
12-60	1200 x 600	1400 x 700	2M + 65	4M + 106	1	1
72		1700 x 810		4M + 161		
84-96						
108-144	1400 x 700	N/A	2M + 65	N/A		N/A
156-216						

*Refer to nominal cable weight for M

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 ± 180°)	Nom. Tube Diameter (mm)	No. Elements (Tubes/Fillers)	Nom. Cable Diameter (mm)	Nom. Cable Weight (kg/km)	
											CPR-Rated Product	External Product
12-60	450	1500	10x Cable Diameter	15x Cable Diameter	2000	5	5	2.5	5	10.4	102	76
72									6	11.2	120	90
84-96									8	12.6	153	120
108-144									12	16.0	233	190
156-216									18	16.5	231	186

OPTICAL PERFORMANCE

Fiber Identifier	108	208	OM3	OM4	OM5
IEC 60793 Reference	2-50-B-657.A1	2-50-B-657.A2	2-10-A1-OM3b	2-10-A1-OM4b	-2-10 A1-OM5b
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	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	—	—	—

PRODUCT SPECIFICATIONS

Duct-Grade Multi-Loose-Tube Cables

PART NUMBER CONFIGURATOR

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

DESIGN	FIBER TYPE		CONSTRUCTION		FIBER COUNT	WATER BLOCKING LAYER		OUTER SHEATH		EUROCLASS
GF	108	SM G657A1	S	Multi Loose Tube	12	W	Water Swellable Tape	LU	HFFR-LS	Eca (If applicable)
HF	208	SM G657A2			24			NM	Polyethylene	
	062	MM OM1			36					
	OM3	MM OM3			48					
	OM4	MM OM4			72					
	OM5	MM OM5			96					
					144					
					192					
					216					

PART NUMBERS - CPR RATED	
Description	Part No.
48 Fiber Singlemode G.657.A1 – Duct Grade Multi Loose Tube, 5 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	GF108S48WLU-Eca
72 Fiber Singlemode G.657.A1 – Duct Grade Multi Loose Tube, 6 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HF108S72WLU-Eca
96 Fiber Singlemode G.657.A1 – Duct Grade Multi Loose Tube, 8 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HF108S96WLU-Eca
144 Fiber Singlemode G.657.A1 – Duct Grade Multi Loose Tube, 12 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HF108S144WLU-Eca
216 Fiber Singlemode G.657.A1 – Duct Grade Multi Loose Tube, 18 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HF108S216WLU-Eca
48 Fiber Multimode OM3 – Duct Grade Multi Loose Tube, 5 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	GFOM3S48WLU-Eca
72 Fiber Multimode OM3 – Duct Grade Multi Loose Tube, 6 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HFOM3S72WLU-Eca
96 Fiber Multimode OM3 – Duct Grade Multi Loose Tube, 8 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HFOM3S96WLU-Eca
144 Fiber Multimode OM3 – Duct Grade Multi Loose Tube, 12 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HFOM3S144WLU-Eca
216 Fiber Multimode OM3 – Duct Grade Multi Loose Tube, 18 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HFOM3S216WLU-Eca
48 Fiber Multimode OM4 – Duct Grade Multi Loose Tube, 5 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	GFOM4S48WLU-Eca
72 Fiber Multimode OM4 – Duct Grade Multi Loose Tube, 6 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HFOM4S72WLU-Eca
96 Fiber Multimode OM4 – Duct Grade Multi Loose Tube, 8 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HFOM4S96WLU-Eca
144 Fiber Multimode OM4 – Duct Grade Multi Loose Tube, 12 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HFOM4S144WLU-Eca
216 Fiber Multimode OM4 – Duct Grade Multi Loose Tube, 18 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HFOM4S216WLU-Eca
48 Fiber Multimode OM5 – Duct Grade Multi Loose Tube, 5 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	GFOM5S48WLU-Eca
72 Fiber Multimode OM5 – Duct Grade Multi Loose Tube, 6 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HFOM5S72WLU-Eca
96 Fiber Multimode OM5 – Duct Grade Multi Loose Tube, 8 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HFOM5S96WLU-Eca
144 Fiber Multimode OM5 – Duct Grade Multi Loose Tube, 12 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HFOM5S144WLU-Eca
216 Fiber Multimode OM5 – Duct Grade Multi Loose Tube, 18 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HFOM5S216WLU-Eca

PRODUCT SPECIFICATIONS

Duct-Grade Multi-Loose-Tube Cables

PART NUMBERS - EXTERNAL	
Description	Part No.
48 Singlemode G.657.A1 – Duct Grade Multi Loose Tube, 5 Element, 12F/T, External PE Sheath	GF108S48WNNM
72 Fiber Singlemode G.657.A1 – Duct Grade Multi Loose Tube, 6 Element, 12F/T, External PE Sheath	HF108S72WNNM
96 Fiber Singlemode G.657.A1 – Duct Grade Multi Loose Tube, 8 Element, 12F/T, External PE Sheath	HF108S96WNNM
144 Fiber Singlemode G.657.A1 – Duct Grade Multi Loose Tube, 12 Element, 12F/T, External PE Sheath	HF108S144WNNM
216 Fiber Singlemode G.657.A1 – Duct Grade Multi Loose Tube, 18 Element, 12F/T, External PE Sheath	HF108S216WNNM
48 Fiber Multimode OM3 – Duct Grade Multi Loose Tube, 5 Element, 12F/T, External PE Sheath	GFOM3S48WNNM
72 Fiber Multimode OM3 – Duct Grade Multi Loose Tube, 6 Element, 12F/T, External PE Sheath	HFOM3S72WNNM
96 Fiber Multimode OM3 – Duct Grade Multi Loose Tube, 8 Element, 12F/T, External PE Sheath	HFOM3S96WNNM
144 Fiber Multimode OM3 – Duct Grade Multi Loose Tube, 12 Element, 12F/T, External PE Sheath	HFOM3S144WNNM
216 Fiber Multimode OM3 – Duct Grade Multi Loose Tube, 18 Element, 12F/T, External PE Sheath	HFOM3S216WNNM
48 Fiber Multimode OM4 – Duct Grade Multi Loose Tube, 5 Element, 12F/T, External PE Sheath	GFOM4S48WNNM
72 Fiber Multimode OM4 – Duct Grade Multi Loose Tube, 6 Element, 12F/T, External PE Sheath	HFOM4S72WNNM
96 Fiber Multimode OM4 – Duct Grade Multi Loose Tube, 8 Element, 12F/T, External PE Sheath	HFOM4S96WNNM
144 Fiber Multimode OM4 – Duct Grade Multi Loose Tube, 12 Element, 12F/T, External PE Sheath	HFOM4S144WNNM
216 Fiber Multimode OM4 – Duct Grade Multi Loose Tube, 18 Element, 12F/T, External PE Sheath	HFOM4S216WNNM
48 Fiber Multimode OM5 – Duct Grade Multi Loose Tube, 5 Element, 12F/T, External PE Sheath	GFOM5S48WNNM
72 Fiber Multimode OM5 – Duct Grade Multi Loose Tube, 6 Element, 12F/T, External PE Sheath	HFOM5S72WNNM
96 Fiber Multimode OM5 – Duct Grade Multi Loose Tube, 8 Element, 12F/T, External PE Sheath	HFOM5S96WNNM
144 Fiber Multimode OM5 – Duct Grade Multi Loose Tube, 12 Element, 12F/T, External PE Sheath	HFOM5S144WNNM
216 Fiber Multimode OM5 – Duct Grade Multi Loose Tube, 18 Element, 12F/T, External PE Sheath	HFOM5S216WNNM

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

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