

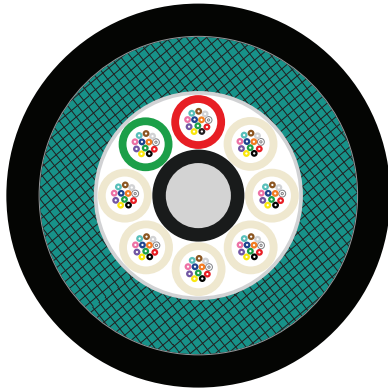
PRODUCT SPECIFICATIONS

Steel-Tape Armored Multi-Loose-Tube Cables

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APPLICATION

Leviton Steel-Tape Armored Multi-Loose-Tube Cables offer up to 216 fibers. The range has been designed to offer enhanced mechanical properties over the Duct-Grade Multi-Loose-Tube product range. These cables are suitable for high-fiber count 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

- 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
- Corrugated steel-tape armor for superior mechanical crush and impact resistance and optimum rodent protection
- Available in a range of UV stable jacket 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

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):	-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	IEC Standard	EN Standard	CPR Rated Product
Material Description	—	—	HFFR-LS
Single Cable Flame Rating	IEC 60332-1-2	EN 60332-1-2	Pass
Acid Gas Emission	IEC 60754-2	—	Pass
Classification / Euroclass	—	EN 13501-6	Eca

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)	Nom. Cable Diameter (mm)	Nom. Cable Weight (kg/km)		
										LU	LUHF3	NM
12-72	600	2700	10x Cable Diameter	15x Cable Diameter	4000	20	5	2.5	13.4	195	198	166
84-96									15.4	243	247	208
108-144									18.5	334	339	294
156-216									18.5	330	335	290

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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-A1a-OM5
ITU-T Recommendation	G.657.A1	G.657.A2	—	G.651.1	G.651.1	G.651.1
ISO/IEC 11801 Category	OS1/OS2	OS1/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	—	—	—	—

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	1700 x 915	2M + 137	4M + 313	1	Non-palletized
84-96	1400 x 800	—		—		Non-palletized
108-144	1700 x 915					
156-216						

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PART NUMBER CONFIGURATOR

Sample Part Number: **HF OM4 S 96 W STA LU - Eca**

DESIGN	FIBER TYPE		CONSTRUCTION		FIBER COUNT	ARMORING		OUTER SHEATH		EUROCLASS
HF	108	SM G657A1	S	Multi Loose Tube	02	STA	Corrugated Steel Tape Armor	LU	HFFR-LS	Eca
EF	208	SM G657A2			04			NM	PE	
	062	MM OM1			06					
	OM3	MM OM3			08					
	OM4	MM OM4			12					
	OM5	MM OM5			16					
					24					
					36					
					48					
					60					
					72					
					96					
					144					
					216					

Steel-Tape Armored Multi-Loose-Tube Cables

PART NUMBERS - CPR RATED

Description	Part No.
48 Fiber Single-mode G.657.A1 – Steel Tape Armor Multi Loose Tube, 6 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HF108S48WSTALU-Eca
72 Fiber Single-mode G.657.A1 – Steel Tape Armor Multi Loose Tube, 6 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HF108S72WSTALU-Eca
96 Fiber Single-mode G.657.A1 – Steel Tape Armor Multi Loose Tube, 8 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HF108S96WSTALU-Eca
144 Fiber Multimode OM3 – Steel Tape Armor Multi Loose Tube, 12 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HFOM3S144WSTALU-Eca
216 Fiber Multimode OM3 – Steel Tape Armor Multi Loose Tube, 18 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HFOM3S216WSTALU-Eca
48 Fiber Multimode OM4 – Steel Tape Armor Multi Loose Tube, 6 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HFOM4S48WSTALU-Eca
72 Fiber Multimode OM4 – Steel Tape Armor Multi Loose Tube, 6 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HFOM4S72WSTALU-Eca
96 Fiber Multimode OM4 – Steel Tape Armor Multi Loose Tube, 8 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HFOM4S96WSTALU-Eca
144 Fiber Multimode OM4 – Steel Tape Armor Multi Loose Tube, 12 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HFOM4S144WSTALU-Eca
216 Fiber Multimode OM41 – Steel Tape Armor Multi Loose Tube, 18 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HFOM5S216WSTALU-Eca
48 Fiber Multimode OM5 – Steel Tape Armor Multi Loose Tube, 6 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HFOM5S48WSTALU-Eca
72 Fiber Multimode OM5 – Steel Tape Armor Multi Loose Tube, 6 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HFOM5S72WSTALU-Eca
96 Fiber Multimode OM5 – Steel Tape Armor Multi Loose Tube, 8 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HFOM5S96WSTALU-Eca
144 Fiber Multimode OM5 – Steel Tape Armor Multi Loose Tube, 12 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HFOM5S144WSTALU-Eca
216 Fiber Multimode OM5– Steel Tape Armor Multi Loose Tube, 18 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HFOM5S216WSTALU-Eca

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Steel-Tape Armored Multi-Loose-Tube Cables

PART NUMBERS - EXTERNAL

Description	Part No.
48 Fiber Single-mode G.657.A1 – Steel Tape Armor Multi Loose Tube, 6 Element, 12F/T, External PE Sheath	HF108S48WSTANM
72 Fiber Single-mode G.657.A1 – Steel Tape Armor Multi Loose Tube, 6 Element, 12F/T, External PE Sheath	HF108S72WSTANM
96Fiber Single-mode G.657.A1 – Steel Tape Armor Multi Loose Tube, 8 Element, 12F/T, External PE Sheath	HF108S96WSTANM
144 Fiber Single-mode G.657.A1 – Steel Tape Armor Multi Loose Tube, 12 Element, 12F/T, External PE Sheath	HF108S144WSTANM
216 Fiber Single-mode G.657.A1 – Steel Tape Armor Multi Loose Tube, 18 Element, 12F/T, External PE Sheath	HF108S216WSTANM
48 Fiber Multimode OM3 – Steel Tape Armor Multi Loose Tube, 6 Element, 12F/T, External PE Sheath	HFOM3S48WSTANM
72 Fiber Multimode OM3 – Steel Tape Armor Multi Loose Tube, 6 Element, 12F/T, External PE Sheath	HFOM3S72WSTANM
96Fiber Multimode OM3 – Steel Tape Armor Multi Loose Tube, 8 Element, 12F/T, External PE Sheath	HFOM3S96WSTANM
144 Fiber Multimode OM3 – Steel Tape Armor Multi Loose Tube, 12 Element, 12F/T, External PE Sheath	HFOM3S144WSTANM
216 Fiber Multimode OM3 – Steel Tape Armor Multi Loose Tube, 18 Element, 12F/T, External PE Sheath	HFOM3S216WSTANM
48 Fiber Multimode OM4 – Steel Tape Armor Multi Loose Tube, 6 Element, 12F/T, External PE Sheath	HFOM4S48WSTANM
72 Fiber Multimode OM4 – Steel Tape Armor Multi Loose Tube, 6 Element, 12F/T, External PE Sheath	HFOM4S72WSTANM
96Fiber Multimode OM4 – Steel Tape Armor Multi Loose Tube, 8 Element, 12F/T, External PE Sheath	HFOM4S96WSTANM
144 Fiber Multimode OM4 – Steel Tape Armor Multi Loose Tube, 12 Element, 12F/T, External PE Sheath	HFOM4S144WSTANM
216 Fiber Multimode OM4 – Steel Tape Armor Multi Loose Tube, 18 Element, 12F/T, External PE Sheath	HFOM5S216WSTANM
48 Fiber Multimode OM5 – Steel Tape Armor Multi Loose Tube, 6 Element, 12F/T, External PE Sheath	HFOM5S48WSTANM
72 Fiber Multimode OM5 – Steel Tape Armor Multi Loose Tube, 6 Element, 12F/T, External PE Sheath	HFOM5S72WSTANM
96Fiber Multimode OM5 – Steel Tape Armor Multi Loose Tube, 8 Element, 12F/T, External PE Sheath	HFOM5S96WSTANM
144 Fiber Multimode OM5 – Steel Tape Armor Multi Loose Tube, 12 Element, 12F/T, External PE Sheath	HFOM5S144WSTANM
216 Fiber Multimode OM5 – Steel Tape Armor Multi Loose Tube, 18 Element, 12F/T, External PE Sheath	HFOM5S216WSTANM

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

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