

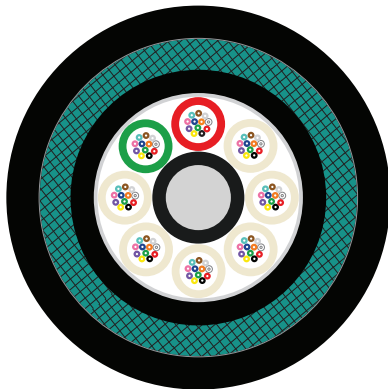
PRODUCT SPECIFICATIONS

Twin-Sheath Steel-Tape Armored Multi-Loose-Tube Cables

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APPLICATION

Leviton Twin-Sheath 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. Leviton Twin-Sheath Steel-Tape Armored Multi-Loose-Tube 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
- Twin-sheath design offering additional mechanical protection and installation options
- Available in a range of UV stable jacket 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

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	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)	Nom. Cable Diameter (mm)	Nom. Cable Weight (kg/km)	
										LU	NM
12-72	600	2000	10x Cable Diameter	15x Cable Diameter	5000	30	5	2.5	15.4	265	214
84-96									17.5	316	257
108-144									20.6	425	354
156-216									20.6	424	351

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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	1400 x 800	—	1	—	1	—
84-96						
108-144	1700 x 915	—	1	—	Non-palletized	—
156-216						

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PART NUMBER CONFIGURATOR

Sample Part Number: **HF OM4 S 24 W L STA 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	12	W Water Swellable Tape	L HFFR-LS	STA Corrugated Steel Tape Armor	LU HFFR-LS	Eca
	208 SM G657A2		24					
	062 MM OM1		48					
	OM3 MM OM3		96					
	OM4 MM OM4		144					
	OM5 MM OM5		216					
			288					

PART NUMBERS - CPR RATED	
Description	Part No.
48 Fiber Single-mode G.657.A1 – Twin Sheath Steel Tape Armor Multi-Loose-Tube, 6 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HF108S48WLSTALU-Eca
72 Fiber Single-mode G.657.A1 – Twin Sheath Steel Tape Armor Multi-Loose-Tube, 6 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HF108S72WLSTALU-Eca
96 Fiber Single-mode G.657.A1 – Twin Sheath Steel Tape Armor Multi-Loose-Tube, 8 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HF108S96WLSTALU-Eca
144 Fiber Multimode OM3 – Twin Sheath Steel Tape Armor Multi-Loose-Tube, 12 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HFOM3S144WLSTALU-Eca
216 Fiber Multimode OM3 – Twin Sheath Steel Tape Armor Multi-Loose-Tube, 18 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HFOM3S216WLSTALU-Eca
48 Fiber Multimode OM4 – Twin Sheath Steel Tape Armor Multi-Loose-Tube, 6 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HFOM4S48WLSTALU-Eca
72 Fiber Multimode OM4 – Twin Sheath Steel Tape Armor Multi-Loose-Tube, 6 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HFOM4S72WLSTALU-Eca
96 Fiber Multimode OM4 – Twin Sheath Steel Tape Armor Multi-Loose-Tube, 8 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HFOM4S96WLSTALU-Eca
144 Fiber Multimode OM4 – Twin Sheath Steel Tape Armor Multi-Loose-Tube, 12 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HFOM4S144WLSTALU-Eca
216 Fiber Multimode OM4 – Twin Sheath Steel Tape Armor Multi-Loose-Tube, 18 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HFOM5S216WLSTALU-Eca
48 Fiber Multimode OM5 – Twin Sheath Steel Tape Armor Multi-Loose-Tube, 6 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HFOM5S48WLSTALU-Eca
72 Fiber Multimode OM5 – Twin Sheath Steel Tape Armor Multi-Loose-Tube, 6 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HFOM5S72WLSTALU-Eca
96 Fiber Multimode OM5 – Twin Sheath Steel Tape Armor Multi-Loose-Tube, 8 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HFOM5S96WLSTALU-Eca
144 Fiber Multimode OM5 – Twin Sheath Steel Tape Armor Multi-Loose-Tube, 12 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HFOM5S144WLSTALU-Eca
216 Fiber Multimode OM5 – Twin Sheath Steel Tape Armor Multi-Loose-Tube, 18 Element, 12F/T, Universal LSHF/LSZH, Euroclass Eca	HFOM5S216WLSTALU-Eca

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PART NUMBERS - EXTERNAL

Description	Part No.
48 Fiber Single-mode G.657.A1 – Twin Sheath Steel Tape Armor Multi-Loose-Tube, 6 Element, 12F/T, External PE Sheath	HF108S48WNMSTANM
72 Fiber Single-mode G.657.A1 – Twin Sheath Steel Tape Armor Multi-Loose-Tube, 6 Element, 12F/T, External PE Sheath	HF108S72WNMSTANM
96Fiber Single-mode G.657.A1 – Twin Sheath Steel Tape Armor Multi-Loose-Tube, 8 Element, 12F/T, External PE Sheath	HF108S96WNMSTANM
144 Fiber Single-mode G.657.A1 – Twin Sheath Steel Tape Armor Multi-Loose-Tube, 12 Element, 12F/T, External PE Sheath	HF108S144WNMSTANM
216 Fiber Single-mode G.657.A1 – Twin Sheath Steel Tape Armor Multi-Loose-Tube, 18 Element, 12F/T, External PE Sheath	HF108S216WNMSTANM
48 Fiber Multimode OM3 – Twin Sheath Steel Tape Armor Multi-Loose-Tube, 6 Element, 12F/T, External PE Sheath	HFOM3S48WNMSTANM
72 Fiber Multimode OM3 – Twin Sheath Steel Tape Armor Multi-Loose-Tube, 6 Element, 12F/T, External PE Sheath	HFOM3S72WNMSTANM
96Fiber Multimode OM3 – Twin Sheath Steel Tape Armor Multi-Loose-Tube, 8 Element, 12F/T, External PE Sheath	HFOM3S96WNMSTANM
144 Fiber Multimode OM3 – Twin Sheath Steel Tape Armor Multi-Loose-Tube, 12 Element, 12F/T, External PE Sheath	HFOM3S144WNMSTANM
216 Fiber Multimode OM3 – Twin Sheath Steel Tape Armor Multi-Loose-Tube, 18 Element, 12F/T, External PE Sheath	HFOM3S216WNMSTANM
48 Fiber Multimode OM4 – Twin Sheath Steel Tape Armor Multi-Loose-Tube, 6 Element, 12F/T, External PE Sheath	HFOM4S48WNMSTANM
72 Fiber Multimode OM4 – Twin Sheath Steel Tape Armor Multi-Loose-Tube, 6 Element, 12F/T, External PE Sheath	HFOM4S72WNMSTANM
96Fiber Multimode OM4 – Twin Sheath Steel Tape Armor Multi-Loose-Tube, 8 Element, 12F/T, External PE Sheath	HFOM4S96WNMSTANM
144 Fiber Multimode OM4 – Twin Sheath Steel Tape Armor Multi-Loose-Tube, 12 Element, 12F/T, External PE Sheath	HFOM4S144WNMSTANM
216 Fiber Multimode OM4 – Twin Sheath Steel Tape Armor Multi-Loose-Tube, 18 Element, 12F/T, External PE Sheath	HFOM5S216WNMSTANM
48 Fiber Multimode OM5 – Twin Sheath Steel Tape Armor Multi-Loose-Tube, 6 Element, 12F/T, External PE Sheath	HFOM5S48WNMSTANM
72 Fiber Multimode OM5 – Twin Sheath Steel Tape Armor Multi-Loose-Tube, 6 Element, 12F/T, External PE Sheath	HFOM5S72WNMSTANM
96Fiber Multimode OM5 – Twin Sheath Steel Tape Armor Multi-Loose-Tube, 8 Element, 12F/T, External PE Sheath	HFOM5S96WNMSTANM
144 Fiber Multimode OM5 – Twin Sheath Steel Tape Armor Multi-Loose-Tube, 12 Element, 12F/T, External PE Sheath	HFOM5S144WNMSTANM
216 Fiber Multimode OM5 – Twin Sheath Steel Tape Armor Multi-Loose-Tube, 18 Element, 12F/T, External PE Sheath	HFOM5S216WNMSTANM

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

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