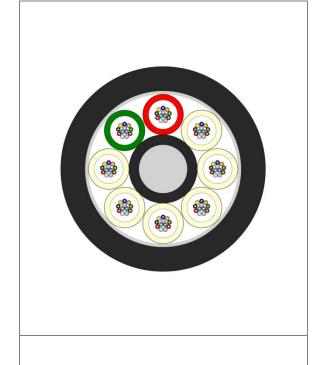## APPLICATION

Leviton Duct-Grade Multi-Loose-Tube Cables offers up to 216 fibers. The range offers 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.

FEATURES AND 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 to prohibit the ingress of water throughout the cable length
- Available in a range of sheath materials to suit a variety of installation environments
- HFFR-LS* versions meet the requirements of the Construction Products Regulation (CPR) EuroClass Eca
- Included in the Leviton Limited 25-Year System Warranty when used in conjunction with Leviton connectivity. System warranties are available for qualified projects installed by certified contractors

Halogen-Free Flame-Retardant Low-Smoke

HFOM4S96WLU-Eca

STANDARDS

Applicable Cable Standards:	ISO/IEC 11801, IEC 60794 and BS EN 50173-1
Test Standards:	IEC 60794-1-21 and IEC 60794-1-22
Water Penetration:	IEC 60794 -1-22-F5C

FIBER IDENTIFICATION

Fiber Identifier*	**008**	**108**	**208**	**062**	**050**	**OM3**	**OM4**
IEC 60793 Reference	2-50-B1.3	2-50-B6_a	2-50-B6_a	2-10-A1b	2-10-A1a.1	2-10-A1a.2	2-10-A1a.3
ITU-T Recommendation	G.652.D	G.657.A1	G.657.A2	N/A	G.651.1	G.651.1	G.651.1
ISO/IEC 11801 Category	OS1/OS2	OS1/OS2	OS1/OS2	OM1	OM2	OM3	OM4

Duct-Grade Multi-Loose-Tube Cables

Datasheet: GD102090v7

MATERIAL IDENTIFICATION

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	N/A – External Only
Fire EuroClass EN13501-6	Eca	Eca	N/A – External Only
Acid Gas Emission	IEC 60754-2	IEC 60754-2	N/A – External Only
Color	Black	Black	Black

PHYSICAL CHARACTERISTICS

Fiber Count	No. Elements (Tubes/Fillers)	Nom. Tube Diameter (mm)	Nom. Cable Diameter (mm)	Nom. Cable Weight M (kg/km)		
				LU	LUHF3	NM
12-60	5		10.4	101	102	76
72	6		11.2	118	120	90
84-96	8	2.5	12.6	151	153	120
108-144	12		16.0	230	233	190
156-216	18		16.5	228	231	186

MECHANICAL PERFORMANCE

Fiber Count	Max. Long Term Load (N)	Max. Short Term Load (N)	Min. Static Bend (mm)	Min. Dynamic Bend (mm)	Max. Crush (N)	Max. Impact (Nm)	Max. Torsion (Turns ± 180º)
12-60	450	1500	10 x Cable Diameter	15 x Cable Diameter	2000	5	5
72-216	600	2000					

TEMPERATURE PERFORMANCE

Fiber Count	Operational Temperature Range	Storage Temperature Range	Installation Temperature Range
12-216	-40°C to + 70°C	-40°C to + 70°C	-10°C to + 70°C

PACKAGING INFO

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 690	1400 x 800	2M + 137	4M + 183	1	1
72	1200 x 690	1400 x 800	2M + 137	4M + 183	1	1
84-96	1200 x 690	1700 x 915	2M + 137	4M + 313	1	1
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

‡Refer to nominal cable weight for M.

PART NUMBER CONFIGURATOR

<u>**a**</u> - <u>**b**</u> - S - <u>**c**</u> - W - <u>**d**</u> - Eca

a = **GF** for up to 72 fibers
HF for standard design
EF for Enhanced LSHF

b = Fiber Identifier*
e.g. "**008**" for G.652.D fiber

c = 2- or 3-digit fiber count
e.g. "**02**" for 2 fiber cable

d = Material Identifier**
e.g. "**LU**" for standard HFFR-LS

Example part number: HFOM4S96WLU-Eca.

COUNTRY OF ORIGIN

COO: United Kingdom

*"Leviton is **dedicated** to **designing**, **developing** and **manufacturing**
sustainable **high performance** structured cabling and specialty **cabling solutions.**"*

The information contained in this document is valid and correct at the time of issue. Leviton reserves the right to modify details without notice in light of subsequent standard/specification changes and ongoing technical developments.