Glass Yarn Armored Multi-Loose-Tube Cables

Datasheet: GD102038v5

LEVITON

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.

Leviton Glass Yarn Armored Multi-Loose Tube cables are suitable for high fiber count internal/external duct and internal cable tray installations in building and campus backbone applications.

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 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* 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

HFOM4S96WRRLU-Eca
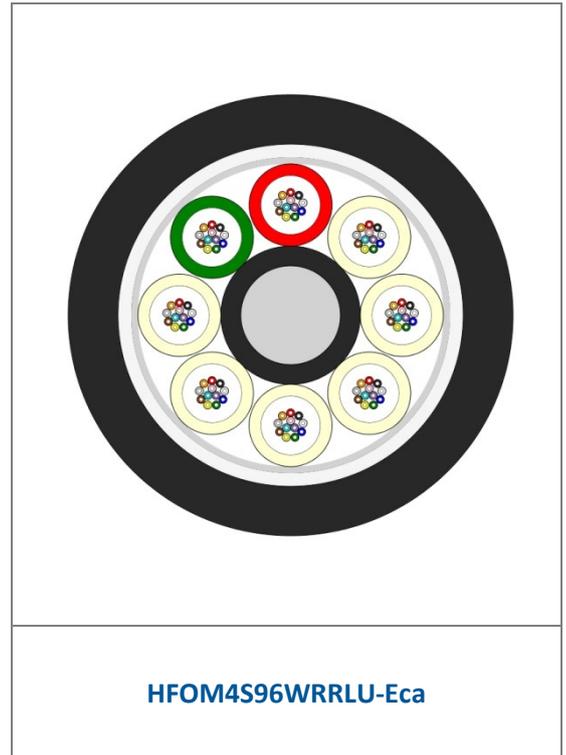
*Halogen Free Flame Retardant Low Smoke

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

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

[†] Halogen-Free Flame-Retardant Low-Smoke

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
12-72	6	2.5	12.0	145	148	116
84-96	8		13.4	176	179	143
108-144	12		16.8	266	269	223
156-216	18		17.3	266	269	222

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)
12-216	1650	5500	10 x Cable Diameter	15 x Cable Diameter	2000	5	5

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
12-72	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

[‡]Refer to nominal cable weight for M.

PART NUMBER CONFIGURATOR

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

a = **GF** for 5 element design
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: HFOM4S96WRRLU-Eca.

COUNTRY OF ORIGIN

COO: United Kingdom

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

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