Unitube Fire-Survival Cables
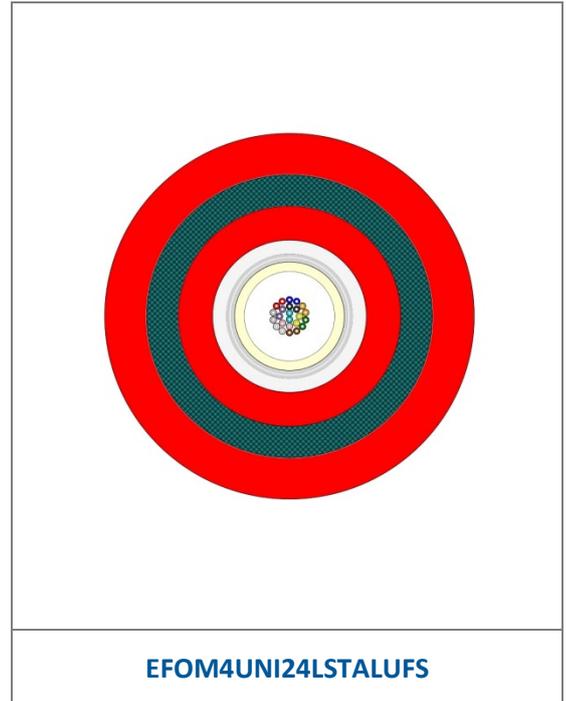
Datasheet: GD102091v7

LEVITON

APPLICATION

Unitube Fire-Survival cables offer up to 24 fibers in a compact cable construction. Cables are specially designed to withstand the strict flammability tests of IEC 60331-25. Suitable for areas where critical data transmission must continue when the building or structure in which it is installed is on fire. Ideal for large public buildings such as data centers, airports, railway stations, stadia, and onshore/offshore industrial structures.

FEATURES AND BENEFITS

- 2-24 Fiber counts – color-coded according to TIA-598-D
- Customizable fiber selection including single-mode, multimode and hybrid versions to suit a variety of applications
- Single gel-filled loose-tube to block the ingress of water
- Glass yarn armoring in the form of high-tensile yarns to offer strength
- Layer of fire-retardant tapes to protect the fibers against fire damage
- Corrugated steel-tape armor for superior mechanical crush and impact resistance and optimum rodent protection
- Twin-sheath design offering additional flame-retardant material and mechanical protection
- 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

EFOM4UNI24LSTALUFS

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 *(up to inner sheath only)*

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

Unitube Fire-Survival Cables

Datasheet: GD102091v7

MATERIAL IDENTIFICATION

Material Identifier	**LUHF3**
Material Description	Enhanced HFFR-LS*
Flammability Rating	IEC 60332-3-24, IEC 60331-25, BS EN 50200 PH120 & BS 8434-2
Smoke Emission	IEC 61034-1 & 2
Acid Gas Emission	IEC 60754-2
Color	Red

† *Halogen Free Flame Retardant – Low Smoke*

PHYSICAL CHARACTERISTICS

Fiber Count	Nom. Tube Diameter *(mm)*	Nom. Cable Diameter *(mm)*	Nom. Cable Weight *(kg/km)*
2-24	4.0	13.45	212.9

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)*
2-24	230	700	10 x Cable Diameter	15 x Cable Diameter	2500	30	5

TEMPERATURE PERFORMANCE

Fiber Count	Operational Temperature Range	Storage Temperature Range	Installation Temperature Range
2-24	-20°C to + 60°C	-20°C to + 60°C	-10°C to + 60°C

PACKAGING INFO

Fiber Count	Reel Size (flange x width mm)	Gross Weight (kg/reel)	Reels per Pallet
	2km	2km	2km
2-24	1200 x 690	563	1

Only available in up to 2km lengths.

PART NUMBER CONFIGURATOR

EF - <u>a</u> - UNI - <u>b</u> – LSTALUFS

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

b = 2-digit fiber count
e.g. "**02**" for 2 fiber cable

Example part number: EFOM4UNI24LSTALUFS

COUNTRY OF ORIGIN

COO: United Kingdom

---

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