# Duct-Grade Unitube Cable

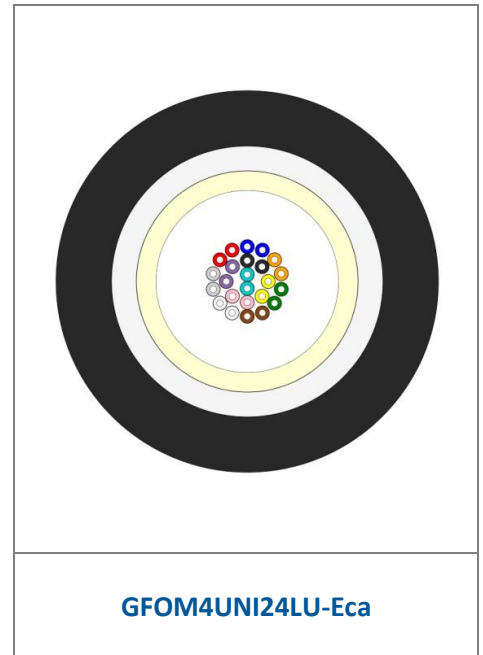Datasheet: GD103097v8

**LEVITON**

## APPLICATION

Leviton Duct-Grade Unitube cables offer up to 24 fibers in a compact cable construction. The range is lighter and smaller than multi-loose-tube alternatives and offers a robust solution capable of withstanding standard installation practices.

Leviton Duct-Grade Unitube cables are suitable for internal/external duct and internal cable tray installations in building and campus backbone applications.

## FEATURES AND BENEFITS

- 2-24 fiber counts – color coded according to TIA-598-C
- 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 and basic rodent protection
- Available in a range of UV stable 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 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 (HFFR-LS)*



**GFOM4UNI24LU-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** | OS1a/OS2 | OS1a/OS2 | OS1a/OS2 | OM1 | OM2 | OM3 | OM4 |

# Duct-Grade Unitube Cable

Datasheet: GD103097v8

LEVITON

## 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 |
| Smoke Emission | IEC 61034-1 & 2 | IEC 61034-1 & 2 | 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 | Nom. Tube Diameter (mm) | Nom. Cable Diameter (mm) | | | Nom. Cable Weight (kg/km) | | |
|---|---|---|---|---|---|---|---|
| | | LU | LUHF3 | NM | LU | LUHF3 | NM |
| 2-12 | 2.9 | 5.8 | 6.3 | 5.8 | 37 | 45 | 28 |
| 16-24 | 4.0 | 6.9 | 7.4 | 6.9 | 48 | 58 | 38 |

## 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) |
|---|---|---|---|---|---|---|---|
| 2-12 | 442 | 1000 | 10 x Cable Diameter | 15 x Cable Diameter | 1500 | 3 | 5 |
| 16-24 | 569 | | | | | | |

## 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 | Material Identifier | Reel Size (flange x width mm) | | Gross Weight (kg/reel) | | Reels per Pallet | |
|---|---|---|---|---|---|---|---|
| | | 2km | 4km | 2km | 4km | 2km | 4km |
| 2-12 | LU | 915 x 460 | 915 x 460 | 94 | 168 | 2 | 2 |
| | LUHF3 | 915 x 460 | 1070 x 510 | 112 | 212 | 2 | 2 |
| | NM | 915 x 460 | 915 x 460 | 78 | 134 | 2 | 2 |
| 16-24 | LU | 915 x 460 | 1070 x 510 | 118 | 223 | 2 | 1 |
| | LUHF3 | 915 x 460 | 1070 x 510 | 138 | 264 | 2 | 1 |
| | NM | 915 x 460 | 1070 x 510 | 97 | 182 | 2 | 1 |

## PART NUMBER CONFIGURATOR

<u>a</u> - <u>b</u> - UNI - <u>c</u> - <u>d</u>- Eca

**a** =   **GF** for standard design
            **EF** for Enhanced LSHF

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

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

**d** =   Material Identifier**
            e.g "**LU**" for standard LSHF

Example part number: GFOM4UNI24LU-Eca.

## COUNTRY OF ORIGIN

**COO:**                   United Kingdom

---

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