# Glass Yarn Armored Unitube Cable, EuroClass Eca

Datasheet: GD101993v7

**LEVITON**

## APPLICATION

Leviton Glass Yarn Armored Unitube cables offer up to 24 fibers in a compact cable construction. The range offers enhanced rodent protection and mechanical properties over the Duct-Grade Unitube product range.

Glass Yarn Armored 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-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 to offer higher strength and enhanced rodent protection
- 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 Warranties when used in conjunction with Leviton connectivity. System warranties are available for qualified projects installed by certified contractors

*Halogen Free Flame Retardant – Low Smoke*



**GFOM4UNI24RRLU**

## 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 |

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## 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 | Nom. Tube Diameter (mm) | Nom. Cable Diameter (mm) | | | Nom. Cable Weight (kg/km) | | |
|---|---|---|---|---|---|---|---|
| | | LU | LUHF3 | NM | LU | LUHF3 | NM |
| 2-12 | 2.9 | 7.4 | 7.4 | 7.4 | 63 | 64 | 50 |
| 16-24 | 4.0 | 8.1 | 8.1 | 8.1 | 73 | 75 | 58 |

## 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 | 628 | 2800 | 10 x Cable Diameter | 15 x Cable Diameter | 2000 | 5 | 5 |
| 16-24 | 736 | | | | | | |

## 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 | 1070 x 510 | 148 | 357 | 2 | 2 |
| | LUHF3 | 915 x 460 | 1070 x 510 | 151 | 290 | 2 | 2 |
| | NM | 915 x 460 | 1070 x 510 | 122 | 231 | 2 | 2 |
| 16-24 | LU | 915 x 460 | 1070 x 510 | 168 | 323 | 2 | 2 |
| | LUHF3 | 915 x 460 | 1070 x 510 | 172 | 331 | 2 | 2 |
| | NM | 915 x 460 | 1070 x 510 | 139 | 265 | 2 | 2 |

## PART NUMBER CONFIGURATOR

$$\underline{a} - \underline{b} - UNI - \underline{c} - RR - \underline{d} - Eca$$

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

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

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

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

Example part number: GFOM4UNI24RRLU-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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