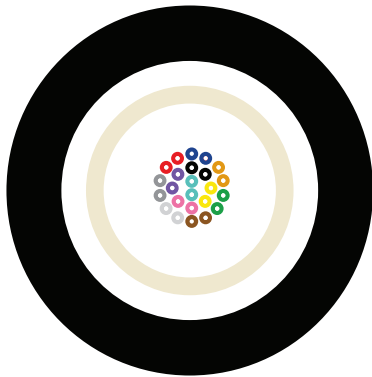


## Duct-Grade Unitube Cables

### APPLICATION

Leviton Duct-Grade Unitube Cable family offers up to 24 fibers in a compact cable construction. The range is lighter and smaller than Multi Loose Tube alternatives and offers a robust and resilient solution. Duct-Grade Unitube cables are suitable for internal/external duct and internal cable tray installations in building and campus backbone applications.



### FEATURES & BENEFITS

- 2-24 fiber counts – color-coded according to TIA-598-D
- Customizable fiber selection including Single-Mode, OM1, OM3, OM4, OM5 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 sheath materials to suit a variety of installation environments
- Halogen-Free Flame Retardant Low-Smoke (HFFR-LS) versions meet the requirements of the Construction Products Regulation (CPR) Euroclass Eca
- CE marked for CPR

### STANDARDS & REGULATIONS

- ISO/IEC 11801
- IEC 60794
- BS EN 50173-1
- IEC 60794-1-21
- IEC 60794-1-22
- IEC 60794 -1-22-F5C (up to inner sheath only)

### COUNTRY OF ORIGIN

UK

### WARRANTY INFORMATION

For Leviton product warranties, go to [Leviton.com/ns/warranty](https://leviton.com/ns/warranty)

## PRODUCT SPECIFICATIONS

### GFxxxUNlxxLU-Eca

#### TECHNICAL SPECIFICATIONS

##### Construction

|               |            |
|---------------|------------|
| Type of cable | Loose Tube |
|---------------|------------|

##### Usage Characteristics

|                       |                                     |
|-----------------------|-------------------------------------|
| Temp. (Storage):      | -20 °C to +60 °C (-4 °F to +140 °F) |
| Temp. (Installation): | -10 °C to +60 °C (14 °F to +140 °F) |
| Temp. (Operating):    | -20 °C to +60 °C (-4 °F to +140 °F) |

#### REACTION TO FIRE

| Characteristics            | IEC Standard  | EN Standard  | CPR Rated Product | External Product    |
|----------------------------|---------------|--------------|-------------------|---------------------|
| Material Description       | —             | —            | HFFR-LS           | Polyethylene        |
| Single Cable Flame Rating  | IEC 60332-1-2 | EN 60332-1-2 | Pass              | N/A - External Only |
| Classification / Euroclass | —             | EN 13501-6   | Eca               | N/A - External Only |

#### TECHNICAL SPECIFICATIONS

| Fiber Count | Max. Long Term Load (N) | Max. Short Term Load (N) | Min. Static Bend Radius (mm) | Min. Dynamic Bend Radius (mm) | Max. Crush (N) | Max. Impact (Nm) | Max. Torsion (Turns $\pm 180^\circ$ ) | Nom. Tube Diameter (mm) | Nominal Cable Diameter (kg/km) |     | Nominal Cable Weight (kg/km) |    |
|-------------|-------------------------|--------------------------|------------------------------|-------------------------------|----------------|------------------|---------------------------------------|-------------------------|--------------------------------|-----|------------------------------|----|
|             |                         |                          |                              |                               |                |                  |                                       |                         | LU                             | NM  | LU                           | NM |
| 2-12        | 442                     | 1000                     | 10x Cable Diameter           | 15x Cable Diameter            | 1500           | 3                | 5                                     | 2.9                     | 5.8                            | 5.8 | 37                           | 28 |
| 16-24       | 569                     |                          |                              |                               |                |                  |                                       | 4.0                     | 6.9                            | 6.9 | 48                           | 38 |

#### OPTICAL PERFORMANCE

| Fiber Identifier                            | 108         | 208         | 062      | OM3         | OM4         | OM5          |
|---------------------------------------------|-------------|-------------|----------|-------------|-------------|--------------|
| IEC 60793 Reference                         | 2-50-B6_a   | 2-50-B6_a   | 2-10-A1b | 2-10-A1a.2  | 2-10-A1a.3  | -2-10 A1-OM5 |
| ITU-T Recommendation                        | G.657.A1    | G.657.A2    | —        | G.651.1     | G.651.1     | G.651.1      |
| ISO/IEC 11801 Category                      | OS1a/OS2    | OS1a/OS2    | OM1      | OM3         | OM4         | OM5          |
| Effective Modal Bandwidth @850nm (MHz.km)   | —           | —           | —        | $\geq 2000$ | $\geq 4700$ | $\geq 4700$  |
| Overfilled Launch Bandwidth @850nm (MHz.km) | —           | —           | —        | $\geq 1500$ | $\geq 3500$ | $\geq 3500$  |
| Attenuation @850nm (dB/km)                  | —           | —           | —        | $\leq 2.80$ | $\leq 2.80$ | $\leq 2.80$  |
| Attenuation @1300nm (dB/km)                 | —           | —           | —        | $\leq 0.80$ | $\leq 0.80$ | $\leq 0.80$  |
| Attenuation @1310nm (dB/km)                 | $\leq 0.38$ | $\leq 0.38$ | —        | —           | —           | —            |
| Attenuation @1550nm (dB/km)                 | $\leq 0.25$ | $\leq 0.25$ | —        | —           | —           | —            |

#### PACKAGING

| 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   |
|             | NM                  |                               |            | 78                     | 134 |                  |     |
| 16-24       | LU                  |                               | 1070 x 510 | 118                    | 223 |                  | 1   |
|             | NM                  |                               |            | 97                     | 182 |                  |     |

# PRODUCT SPECIFICATIONS

## GFxxxUNlxxLU-Eca

### PART NUMBER CONFIGURATOR

Sample Part Number: **GF OM4 UNI 24 LU - Eca**

| DESIGN | FIBER TYPE |           | CONSTRUCTION |         | FIBER COUNT | OUTER SHEATH |         | EUROCLASS |
|--------|------------|-----------|--------------|---------|-------------|--------------|---------|-----------|
| GF     | 108        | SM G657A1 | UNI          | Unitube | 02          | LU           | HFFR-LS | Eca       |
|        | 208        | SM G657A2 |              |         | 04          | NM           | PE      |           |
|        | 062        | MM OM1    |              |         | 06          |              |         |           |
|        | OM3        | MM OM3    |              |         | 08          |              |         |           |
|        | OM4        | MM OM4    |              |         | 12          |              |         |           |
|        | OM5        | MM OM5    |              |         | 16          |              |         |           |
|        |            |           |              |         | 24          |              |         |           |

GFxxxUNlxxLU-Eca

| PART NUMBERS - CPR                                                          |                  |
|-----------------------------------------------------------------------------|------------------|
| Description                                                                 | Part No.         |
| 4 Fiber Singlemode G.657.A1 – Duct Grade Unitube, LSHF/LSZH, Euroclass Eca  | GF108UNI04LU-Eca |
| 6 Fiber Singlemode G.657.A1 - Duct Grade Unitube, LSHF/LSZH, Euroclass Eca  | GF108UNI06LU-Eca |
| 8 Fiber Singlemode G.657.A1 - Duct Grade Unitube, LSHF/LSZH, Euroclass Eca  | GF108UNI08LU-Eca |
| 12 Fiber Singlemode G.657.A1 - Duct Grade Unitube, LSHF/LSZH, Euroclass Eca | GF108UNI12LU-Eca |
| 24 Fiber Singlemode G.657.A1 - Duct Grade Unitube, LSHF/LSZH, Euroclass Eca | GF108UNI24LU-Eca |
| 4 Fiber Multimode OM3 - Duct Grade Unitube, LSHF/LSZH, Euroclass Eca        | GFOM3UNI04LU-Eca |
| 6 Fiber Multimode OM3 - Duct Grade Unitube, LSHF/LSZH, Euroclass Eca        | GFOM3UNI06LU-Eca |
| 8 Fiber Multimode OM3 - Duct Grade Unitube, LSHF/LSZH, Euroclass Eca        | GFOM3UNI08LU-Eca |
| 12 Fiber Multimode OM3 - Duct Grade Unitube, LSHF/LSZH, Euroclass Eca       | GFOM3UNI12LU-Eca |
| 24 Fiber Multimode OM3 - Duct Grade Unitube, LSHF/LSZH, Euroclass Eca       | GFOM3UNI24LU-Eca |
| 4 Fiber Multimode OM4 - Duct Grade Unitube, LSHF/LSZH, Euroclass Eca        | GFOM4UNI04LU-Eca |
| 6 Fiber Multimode OM4 - Duct Grade Unitube, LSHF/LSZH, Euroclass Eca        | GFOM4UNI06LU-Eca |
| 8 Fiber Multimode OM4 - Duct Grade Unitube, LSHF/LSZH, Euroclass Eca        | GFOM4UNI08LU-Eca |
| 12 Fiber Multimode OM4 - Duct Grade Unitube, LSHF/LSZH, Euroclass Eca       | GFOM4UNI12LU-Eca |
| 24 Fiber Multimode OM4 - Duct Grade Unitube, LSHF/LSZH, Euroclass Eca       | GFOM4UNI24LU-Eca |
| 4 Fiber Multimode OM5 - Duct Grade Unitube, LSHF/LSZH, Euroclass Eca        | GFOM5UNI04LU-Eca |
| 6 Fiber Multimode OM5 - Duct Grade Unitube, LSHF/LSZH, Euroclass Eca        | GFOM5UNI06LU-Eca |
| 8 Fiber Multimode OM5 - Duct Grade Unitube, LSHF/LSZH, Euroclass Eca        | GFOM5UNI08LU-Eca |
| 12 Fiber Multimode OM5 - Duct Grade Unitube, LSHF/LSZH, Euroclass Eca       | GFOM5UNI12LU-Eca |
| 24 Fiber Multimode OM5 - Duct Grade Unitube, LSHF/LSZH, Euroclass Eca       | GFOM5UNI24LU-Eca |

**PRODUCT SPECIFICATIONS**  
**GFxxxUNlxxLU-Eca**



GFxxxUNlxxLU-Eca

**PART NUMBERS - EXTERNAL**

| Description                                                                      | Part No.     |
|----------------------------------------------------------------------------------|--------------|
| 4 Fiber Singlemode G.657.A1 – Duct Grade Unitube, LSHF/LSZH, External PE Sheath  | GF108UNI04NM |
| 6 Fiber Singlemode G.657.A1 - Duct Grade Unitube, LSHF/LSZH, External PE Sheath  | GF108UNI06NM |
| 8 Fiber Singlemode G.657.A1 - Duct Grade Unitube, LSHF/LSZH, External PE Sheath  | GF108UNI08NM |
| 12 Fiber Singlemode G.657.A1 - Duct Grade Unitube, LSHF/LSZH, External PE Sheath | GF108UNI12NM |
| 24 Fiber Singlemode G.657.A1 - Duct Grade Unitube, LSHF/LSZH, External PE Sheath | GF108UNI24NM |
| 4 Fiber Multimode OM3 - Duct Grade Unitube, LSHF/LSZH, External PE Sheath        | GFOM3UNI04NM |
| 6 Fiber Multimode OM3 - Duct Grade Unitube, LSHF/LSZH, External PE Sheath        | GFOM3UNI06NM |
| 8 Fiber Multimode OM3 - Duct Grade Unitube, LSHF/LSZH, External PE Sheath        | GFOM3UNI08NM |
| 12 Fiber Multimode OM3 - Duct Grade Unitube, LSHF/LSZH, External PE Sheath       | GFOM3UNI12NM |
| 24 Fiber Multimode OM3 - Duct Grade Unitube, LSHF/LSZH, External PE Sheath       | GFOM3UNI24NM |
| 4 Fiber Multimode OM4 - Duct Grade Unitube, LSHF/LSZH, External PE Sheath        | GFOM4UNI04NM |
| 6 Fiber Multimode OM4 - Duct Grade Unitube, LSHF/LSZH, External PE Sheath        | GFOM4UNI06NM |
| 8 Fiber Multimode OM4 - Duct Grade Unitube, LSHF/LSZH, External PE Sheath        | GFOM4UNI08NM |
| 12 Fiber Multimode OM4 - Duct Grade Unitube, LSHF/LSZH, External PE Sheath       | GFOM4UNI12NM |
| 24 Fiber Multimode OM4 - Duct Grade Unitube, LSHF/LSZH, External PE Sheath       | GFOM4UNI24NM |
| 4 Fiber Multimode OM5 - Duct Grade Unitube, LSHF/LSZH, External PE Sheath        | GFOM5UNI04NM |
| 6 Fiber Multimode OM5 - Duct Grade Unitube, LSHF/LSZH, External PE Sheath        | GFOM5UNI06NM |
| 8 Fiber Multimode OM5 - Duct Grade Unitube, LSHF/LSZH, External PE Sheath        | GFOM5UNI08NM |
| 12 Fiber Multimode OM5 - Duct Grade Unitube, LSHF/LSZH, External PE Sheath       | GFOM5UNI12NM |
| 24 Fiber Multimode OM5 - Duct Grade Unitube, LSHF/LSZH, External PE Sheath       | GFOM5UNI24NM |

For further support information, visit [Leviton.com/ns/support](https://leviton.com/ns/support)

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