

# Optical Multi Dry Tube B2<sub>CA</sub> Cables

Datasheet: GD104139v1



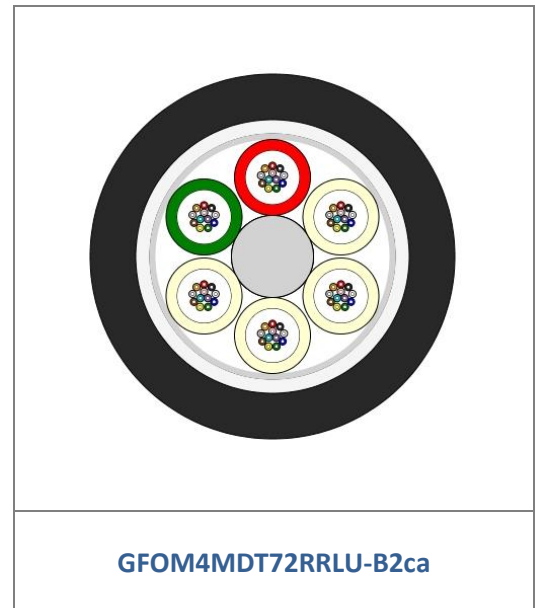
## APPLICATION

Leviton B2<sub>CA</sub> Multiple Dry Tube (MDT) cable family offers up to 72 fibres in a compact, gel free construction. MDT cable is compliant with the European Construction Products Regulation, achieving EuroClass level B2<sub>CA</sub> according to EN 13501-6. The MDT B2<sub>CA</sub> cables are suited to any high density building backbone installation where people safety in the case of fire is a high priority.

Leviton MDT cables are suitable for internal/external duct and internal cable tray installations in building and campus backbone applications.

## FEATURES AND BENEFITS

- 12-72 Fibre Counts - colour coded according to TIA-598-D
- Bend Insensitive Fibre as Standard - Single-Mode, OM3 and OM4 versions to suit a variety of applications
- Multiple Dry Tube cable construction – gel-free to reduce termination time and remove need for solvents
- Glass Yarn Armouring - high tensile yarns to offer strength and enhanced rodent protection
- Enhanced Halogen Free Flame Retardant Low Smoke (HFFR-LS) sheath meets the requirements of the Construction Products Regulation (CPR) EuroClass B2<sub>CA</sub> (Black, UV stable as standard)
- Exceeds the relevant Mechanical and Environmental Performance defined by IEC 60794-2-20
- Included in the Leviton 25 Year System Warranties when used in conjunction with Leviton or Brand-Rex connectivity. System warranties available for qualified projects installed by certified contractors.



## 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

## FIBRE IDENTIFICATION

| Fibre Identifier*      | 108       | 208       | OM3        | OM4        |
|------------------------|-----------|-----------|------------|------------|
| IEC 60793 Reference    | 2-50-B6_a | 2-50-B6_a | 2-10-A1a.2 | 2-10-A1a.3 |
| ITU-T Recommendation   | G.657.A1  | G.657.A2  | G.651.1    | G.651.1    |
| ISO/IEC 11801 Category | OS2       | OS2       | OM3        | OM4        |

Other fibres types are available on request.

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## REACTION TO FIRE

| CHARACTERISTIC               | STANDARD              | RATING                     |
|------------------------------|-----------------------|----------------------------|
| Single Cable Flame Rating    | IEC 60332-1-2         | Pass                       |
| Bundled Cable Flame Rating   | EN50399 20.5kW source | B2 <sub>CA</sub>           |
| Smoke Emission               | EN50399               | s1a                        |
| Flaming Droplets / Particles | EN50399               | d1                         |
| Acid Gas Emission / Acidity  | EN 50267-2-3          | a1                         |
| EuroClassification           | EN13501-6             | B2 <sub>CA</sub> s1a d1 a1 |

## PHYSICAL CHARACTERISTICS

| Fibre Count | Nom. Tube Diameter (mm) | Nom. Cable Diameter (mm) | Nom. Cable Weight (kg/km) |
|-------------|-------------------------|--------------------------|---------------------------|
| 12-60       | 1.6                     | 8.8                      | 85                        |
| 72          | 1.6                     | 9.1                      | 90                        |

## MECHANICAL PERFORMANCE

| Fibre Count | Max. Long Term Load (N) | Max. Short Term Load (N) | Min. Static Bend (mm) | Min. Dynamic Bend (mm) | Max. Crush (N/dm) | Impact Resistance   | Max. Torsion (Turns ± 180°) |
|-------------|-------------------------|--------------------------|-----------------------|------------------------|-------------------|---------------------|-----------------------------|
| 12-60       | 750                     | 2500                     | 15 x Cable Diameter   | 20 x Cable Diameter    | 2000              | 3 impacts<br>1.5 Nm | 5                           |
| 72          |                         |                          |                       |                        |                   |                     |                             |

## TEMPERATURE PERFORMANCE

| Fibre Count | Operational Temperature Range | Storage Temperature Range | Installation Temperature Range |
|-------------|-------------------------------|---------------------------|--------------------------------|
| 12-72       | -20°C to + 60°C               | -20°C to + 60°C           | -5°C to + 50°C                 |

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## PRINT LEGEND

Example print legend:

[Length Mark]m LEVITON OPTICAL FIBRE CABLE GFOM4MDT72RRLU-B2ca 72 FIBRE 50/125 OM4  
EN50399 Euroclass B2ca s1a d1 a1 HCA025 [ID number] [Week/Year]

## PACKAGING INFO

| Fibre Count | Reel Size<br>(flange x width mm) |            | Gross Weight<br>(kg/reel) |     | Reels per Pallet |     |
|-------------|----------------------------------|------------|---------------------------|-----|------------------|-----|
|             | 2km                              | 4km        | 2km                       | 4km | 2km              | 4km |
| 12-60       | 1000 x 590                       | 1200 x 840 | 185                       | 425 | 2                | 1   |
| 72          | 1000 x 590                       | 1200 x 840 | 195                       | 445 | 1                | 1   |

## PART NUMBER CONFIGURATOR

### GF- a - MDT - b - RRLU-B2ca

**a** = Fibre Identifier\* e.g. "108" for  
G.657.A1 fibre

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

Example part number: GFOM4MDT72RRLU-B2ca

*"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.