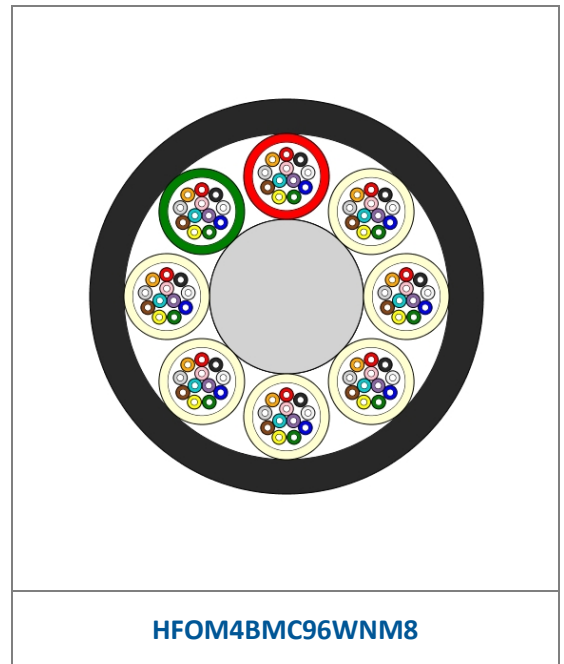## APPLICATION

MicroDuct cabling systems are popular solutions for building flexibility into a network, as they can be populated when needed and leave spare capacity for future growth. MicroBlo air-blown loose-tube MicroDuct cable is available in fiber counts from 2 to 96.

## FEATURES AND BENEFITS

- 12-144 Fiber count - up to 12 fibers per tube color-coded according to TIA-598-D
- Customizable fiber selection includes single-mode, multimode and hybrid versions to suit a variety of applications
- Resin bonded glass central strength member for a flexible design with a high strength-to-weight ratio
- Stranded gel-filled loose-tubes with red and green marker reference for simplified tube identification
- Interstitially dry water-blocked design to prohibit the ingress of water throughout the cable length
- High-density polyethylene outer sheath for optimized blowing performance and superior installation distances
- Included in the Leviton Limited 25-Year System Warranties when used in conjunction with Leviton connectivity. System warranties available for qualified projects installed by certified contractors



**HFOM4BMC96WNM8**

## 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 |

# MicroBlo™ Multi-Loose-Tube Cables

Datasheet: GD102065v5

## MATERIAL IDENTIFICATION

| Material Identifier | NM |
|---|---|
| Material Description | PE - Polyethylene |
| Flammability Rating | N/A – External Only |
| Acid Gas Emission | N/A – External Only |
| Color | Black |

## PHYSICAL CHARACTERISTICS

| Fiber Count | No. Elements** (Tubes/Fillers) | Nom. Tube Diameter (mm) | Nom. Cable Diameter (mm) | Nom. Cable Weight *M* (kg/km) | Recommended Duct Inner Diameter (mm) |
|---|---|---|---|---|---|
| 12-72 | 6 | | 6.0 | 29 | 8.0 |
| 84-96 | 8 | 1.5 | 7.0 | 42 | 10.0 |
| 108-144 | 12 | | 8.7 | 63 | 12.0 |

## 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) |
|---|---|---|---|---|---|---|---|
| 12-72 | 135 | 450 | | | | | |
| 84-96 | 300 | 1000 | 10 x Cable Diameter | 15 x Cable Diameter | 700 | 1 | 1 |
| 108-144 | 450 | 1500 | | | | | |

## TEMPERATURE PERFORMANCE

| Fiber Count | Operational Temperature Range | Storage Temperature Range | Installation Temperature Range |
|---|---|---|---|
| 12-144 | -15°C to +60°C | -30°C to +70°C | -10°C to +40°C |

## PACKAGING INFO

| Fiber Count | Reel Size (flange x width mm) | | Gross Weight† (kg/reel) | | Reels per Pallet | |
|---|---|---|---|---|---|---|
| | 2km | 4km | 2km | 4km | 2km | 4km |
| 12-72 | 915 x 460 | 915 x 460 | 2*M* + 22 | 4*M* + 22 | 2 | 2 |
| 84-96 | 915 x 460 | 1070 x 510 | 2*M* + 22 | 4*M* + 32 | 2 | 2 |
| 108-144 | 915 x 460 | 1200 x 700 | 2*M* + 22 | 4*M* + 35 | 2 | 1 |

†Refer to nominal cable weight for *M*.

Leviton Manufacturing UK Limited

## PART NUMBER CONFIGURATOR

## HF - <u>a</u> - BMC - <u>b</u> - WNM - <u>c</u>

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

**b** = 2- or 3-digit fiber count
e.g. "**02**" for 2 fiber cable

**c** = Number of Elements**
e.g. "**8**" for 84-96 fiber cable

Example part number: HFOM4BMC96WNM8.

## 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**"*

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.