## Multimode Fiber

## MaxCap-BB-OMx - Bend-Insensitive Multimode Optical Fiber OMx = OM2 / OM2+ / OM3 / OM4



## 850 nm Laser-Optimized $50 \boldsymbol{\mu m}$ Bend-Insensitive Multimode Fiber for $10 \mathrm{~Gb} / \mathrm{s}$ applications

Draka has designed a robust 850 nm laser-optimized $50 \mu \mathrm{~m}$ bend-insensitive multimode fiber: MaxCap-BB in quality classes $\mathrm{OM} 2, \mathrm{OM}{ }^{+}, \mathrm{OM} 3$ and OM 4 fiber. The outstanding bending performance of this fiber combines improved fiber and cable management yith high bandwidth for 10G - 40G - 100G system applications. The eminent bending performance of MaxCap-BB-OMx fibers is based on the large know-how Draka built up developing its world-acclaimed Bend-Insensitive singlemode fibers BendBright-XS and BendBright-Elite, added on top of successful MaxCap multimode fibers for premium bandwidth.

MaxCap-BB-OM2 / OM2 ${ }^{+}$/ OM3 / OM4 fibers support compact cable management and allow more easily MACs (Moves, Adds, Changes) applied in Local Area Networks (LAN) backbones up to 550 m (10GBASE-SX) and in Data Centers up to 150 m at 40G/100G bitrates (40GBASE-SR4 and 100GBASE-SR10). The MaxCap-BB-OMx multimode fibers are produced by the proprietary Plasma-activated Chemical Vapor Deposition process (PCVD), acknowledged worldwide as offering the best core profile accuracy for multimode fibers.

## Application in other LAN systems

The MaxCap-BB-OM3 / OM4 multimode fibers types entirely comply with or exceed IEC 60793-2-10 type A1a. 2 / A1a. 3 Optical Fiber Specification, ISO/IEC 11801 OM3 / OM4 specification, TIA/EIA-492AAAC / 492AAAD detail specification and Telcordia GR-20-CORE and GR-409-CORE specifications.

## Features

MaxCap-BB-OM2 / OM2+ / OM3 / OM4 high bandwidth capability is combined with extremely low bending sensitivity

MaxCap-BB-OM2 / OM2 ${ }^{+}$/ OM3 / OM4 low bending sensitivity

MaxCap-BB-OM2 ${ }^{+}$/ OM3 / OM4 fulfill both EMB and DMD requirements; also a tighter inner-DMD mask $(0-18 \mu \mathrm{~m})$ is used

Coated with the dual layer UV Acrylate DLPC9

## Advantages

10 G (and up) system margins, supported by high bandwidth OM2 / OM2 ${ }^{+}$/ OM3 / OM4 are further improved by additional low bending loss, offering more relaxed and easier installations and MACs (Moves, Adds, Changes)

Allows use of smaller, high density fiber management systems, as key issue in limited space data centers, computer rooms and LANs. Overall system network reliability (uptime) is improved thanks to the reduction of system impairments due to tight bends introduced by humane mistakes
Compared to the standards, Draka's MaxCap-BB-OM2+ / OM3 / OM4 fibers ultimately offer additional robustness in 10Gb/s systems
MaxCap-BB-OM2 / OM2 ${ }^{+}$/ OM3 / OM4 multimode fibers show excellent micro-bending behavior, which results in easy cabling and installation, supporting a maximum cabled attenuation of 3.0 $\mathrm{dB} / \mathrm{km}$ at 850 nm

## Key Industry Leading Milestones

| 1999 | 2003 | 2006 | 2010 |
| :--- | ---: | :--- | :--- |
| First shipments of what in <br> 2002 became OM3 fiber | First OM3 type fiber with $10 \mathrm{~Gb} / \mathrm{s}$ <br> extended reach over $550 \mathrm{~m}:$ | First Bend-Insensitive single-mode <br> fiber: BendBright-XS | Introduction of Bend-Insensitive <br> OM2 $/ \mathrm{OM2} / \mathrm{OM} / \mathrm{OM} 4$ fiber: |

MaxCap-OM4 fiber

First Bend-Insensitive single-mode fiber: BendBright-XS
oduction of Bend-Insensitive MaxCap-BB-OMx
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