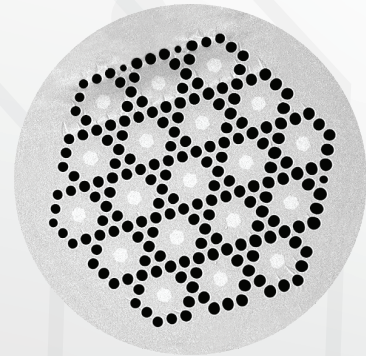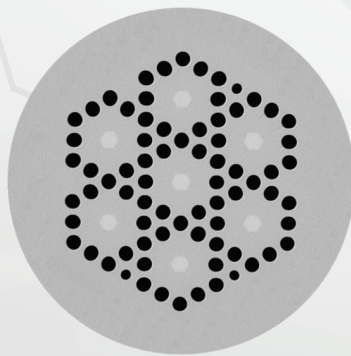InphoTECH®
INNOVATION PHOTONICS TECHNOLOGY

IPT-CORE

TO MULTIPLY YOUR LINK CAPACITY

Next-gen backward-compatible **multicore fiber** with unprecedented bandwidth within the standard physical envelope

FEATURES

—

Increased link capacity provided by several individual cores enabling Spatial Division Multiplexing within the standard fiber outer diameter

Compatible with existing interfaces due to **ITU-T G.652 & G.657B3 compliance**

Unique internal design to avoid **crosstalk** and provide **bend-immunity**

High space-efficiency, featuring **more physical channels per cm²**

Lower energy consumption and lower operational costs

Complete solution available with ready fan-in/fan-out connectors to network installations

Available in **specialty metalized coatings** for resilience to hazardous environments

Special core composition available to enable active and/or radiation hardened multicore fibers

SPECS

—

• Fiber type:
single- of multimode

• Network standards:
ITU-T G.652 & G.657B3

• Cross-talk:
-40 dB for 1550 nm

• Bend loss:
<0.1 dB
(better than ITU-T G.657.B3)

APPLICATIONS

—

• 5G network infrastructure – increased bandwidth
within a single fiber

• Modernization of the existing dense network infrastructure – more
network capacity within the already limited space

• Data Centers – improved airflow & thermal management
thanks to the cabling reduction

• Industry 4.0 information networks – higher bandwidth in a single fiber,
ready for harsh environment applications

• Aviation – reduction of cabling with multiple cores within one fiber

• Space – payload and space reduction with space-hardened multicore
fibers; active fiber amplifiers