# Dark Fiber

## Custom High-Capacity Networks

For clients seeking optimum capacity, security and control over their network, GTT's Dark Fiber portfolio offers a comprehensive set of services available across a broad geographic footprint.

GTT's Dark Fiber network is Europe's largest and most recently deployed homogenous fiber footprint, with dense coverage both between and within all key European cities. Additionally, our clients can take advantage of GTT's partner fiber network interconnect capabilities to extend their reach beyond the GTT network footprint. Finally, GTT offers network build options for bespoke off-net dark fiber expansions to ensure our clients have the connectivity they need

## Service Offerings

### Long-Haul Fiber
The GTT long-haul fiber network covers Western and Central Europe, connecting key European cities. GTT owns the network from the duct level up, with large multi-fiber cable already deployed and capacity to deploy additional cable as and when demand dictates. GTT's long-haul fiber service is based on a single fiber type: Corning® LEAF® (G.655). This ensures higher predictability, which is fundamental for optimal network design.

### Metro Fiber
GTT's metropolitan fiber footprint includes substantial fiber and duct assets in several key European cities including London, Paris, Frankfurt, Amsterdam, Rome, Milan, Madrid, Zürich and Vienna. The GTT metro fiber product is based on G652 fiber.

## Fiber Specifications

### Long-Haul Fiber
Fiber Type: Corning® LEAF® (G.655)
Attenuation at 1550nm: <0.25 dB/KM
Attenuation at 1625nm: <0.27 dB/KM
Chromatic dispersion @1550nm: 2.0 - 6.0 ps/(nm.km)
Chromatic dispersion @1625nm: 4.5 - 11.2 ps/(nm.km)
Fiber polarization mode dispersion: <0. 50 ps/sqrt (km)

### Metro Fiber
Fiber Type: G.652 (mixed supplier)
Attenuation at 1310nm: <0.35 dB/KM
Attenuation at 1550nm: <0.25 dB/KM
Chromatic dispersion @ 1550nm: <18 ps/(nm.km)
Fiber polarization mode dispersion: <0.50 ps/sqrt (km)

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# Service Benefits

**Reach:** The GTT long-haul fiber network dovetails into GTT's metropolitan fiber footprints, with substantial fiber and duct assets in several key European cities including London, Paris, Frankfurt, Amsterdam, Rome, Milan, Madrid, Zurich, and Vienna. GTT also owns and operates minor fiber assets in many other cities and maintains multiple third-party partnerships which allow our clients to extend their reach beyond the GTT fully owned footprint.

**Future-proof Fiber:** GTT's fiber network is the newest pan-European deployment, which translates to improved performance and ensures that circuits on long-term IRU contracts will meet their end-of-life specifications. Our fiber has market-leading PMD and attenuation statistics, which is fundamental as the market moves beyond 100G wavelength deployments.

**Fiber Management:** Because we own the network from the duct up, any network fix is entirely under GTT control, meaning clients can expect a consistent, high level of service and rapid resolution of network issues. GTT utilizes superior, carrier-class telemetry and service indicators to predict fiber stresses that may lead to breaks, aiding in break prevention. Further, the telemetry can accurately locate cuts to improve field services mobilization and reduce service downtime.

**Colocation:** A strong, complementary colocation capability is central to any credible long-haul fiber deployment. GTT's amplifier colocation footprint is highly secure and expandable, with redundant power options, battery autonomy and gen set availability, all backed by well-established maintenance procedures and a stringent SLA. The average distance between our colocation facilities is only 72km, and in 92% of cases, the distance between facilities is less than 90km. Our dense colocation footprint allows for flexible, future-proof optical designs.
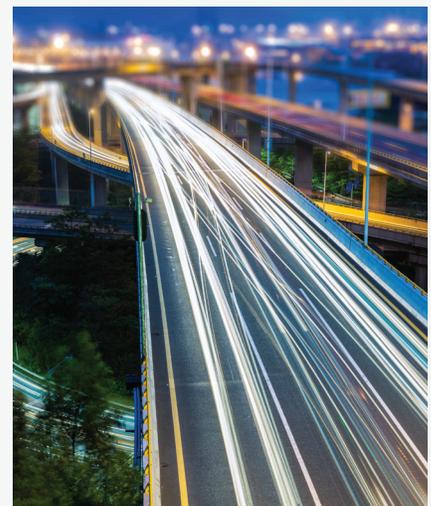
# Who Is GTT?

GTT connects people across organizations, around the world and to every application in the cloud. Our clients benefit from an outstanding service experience built on our core values of simplicity, speed and agility. GTT owns and operates a global Tier 1 internet network and provides a comprehensive suite of cloud networking services.

## Key Features

- Over 23,500km of fully owned fiber

- Over 70,000km of network coverage with extensive third-party agreements

- Multiple, diverse long-haul paths to meet client diversity needs

- Dense metro networks providing manifold topologies such as diverse point-to-point and rings

- Over 15 years of experience in building and operating fiber networks across 29 European countries

- Fiber level monitoring, aiding break prevention

- Section Availability: 99.5%

- Standard commercial options
  - One-, two-, three- and five-year lease options
  - 10-, 15- and 20-year IRU options
  - Lease to IRU conversions also negotiable



# Contact Us

For more information, contact the GTT Channel Team at:
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