

FiTek Photonics Corporation

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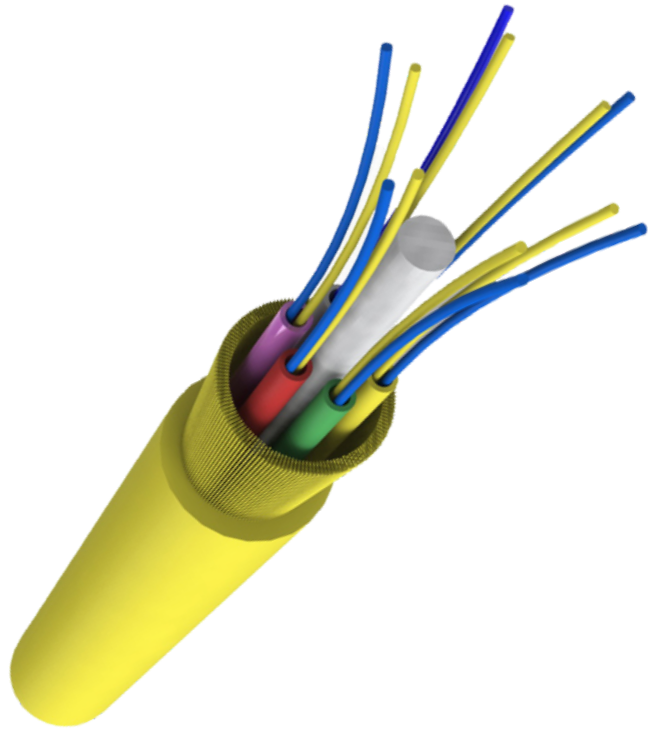
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Indoor Micro Tube Optical Cable



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Description



FiTek's FTTH building optical cable is designed with a multi-tube and a central strength member inside the cable. Each microtube is extractable in the middle of the cable to provide a flexible design for FTTH fiber cabling in the building. This microtube indoor cable features a small cable diameter with a high fiber count and is easy to install in building inner ducts.

Features

- The cable has a small diameter and a high fiber count ranging from 12 to 144 fibers.
- It saves space in crowded inner ducts within both new and old buildings.
- The optical cable features a micro tube that can be extracted, which is useful for the vertical cabling backbone in FTTH building installations.
- This product is more cost-effective than an air-blown fiber system in FTTH design.
- It complies with Telcordia GR-409-CORE and EIA/TIA 568-B.3 standards.

Applications

- Suitable for Fiber-To-The-Home (FTTH) applications that require small OD, high-tensile strength, and high fiber counts.
- Be used in data center trunk cables that require lightweight, high fiber counts, and high-tensile strength.
- Suitable for use in telecom rooms that require high-density fiber and small cable diameter for cable assembly.



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Specifications

| Mechanical Properties | | | | | | | |
|---------------------------------|----------------|-----------------------------|------------------------|---|--------------|---------------------|----------------|
| Fiber Count | Number of Tube | Nominal Outer Diameter (mm) | Nominal Weight (kg/km) | Maximum Tensile Load | | Minimum Bend Radius | |
| | | | | Loaded (N) | Unloaded (N) | Loaded (mm) | Installed (mm) |
| 12 | 6 | 5.6 | 24 | 1,000 | 300 | 15D | 10D |
| 24 | 12 | 7.1 | 45 | 1,800 | 600 | 15D | 10D |
| 24 | 6 | 5.6 | 24 | 1,000 | 300 | 15D | 10D |
| 24 | 4 | 6.0 | 26 | 1,800 | 600 | 15D | 10D |
| 48 | 12 | 7.1 | 28 | 1,000 | 300 | 15D | 10D |
| 48 | 8 | 6.7 | 40 | 1,400 | 500 | 15D | 10D |
| 48 | 4 | 7.0 | 28 | 1,400 | 500 | 15D | 10D |
| 96 | 8 | 7.9 | 46 | 1,800 | 600 | 15D | 10D |
| 144 | 12 | 9.8 | 74 | 2,700 | 1,000 | 15D | 10D |
| Note: D=Outer Diameter of Cable | | | | | | | |
| Micro Tube Material | | | | Low Smoke Zero Halogen | | | |
| Jacket Material | | | | FR-PVC or FR-LSZH | | | |
| Strength Member | | | | Aramid Yarns | | | |
| Central Strength Member (CSM) | | | | FRP | | | |
| Application Temperature | | | | PVC: -40°C to +85°C LSZH: -20°C to +70°C | | | |
| Standard Jacket Color | | | | Beige | | | |
| Micro Tube Color Sequence | | | | Blue/Orange/Green/Brown/Gray/White Red/Black/Yellow/Violet/Pink/Aqua | | | |

