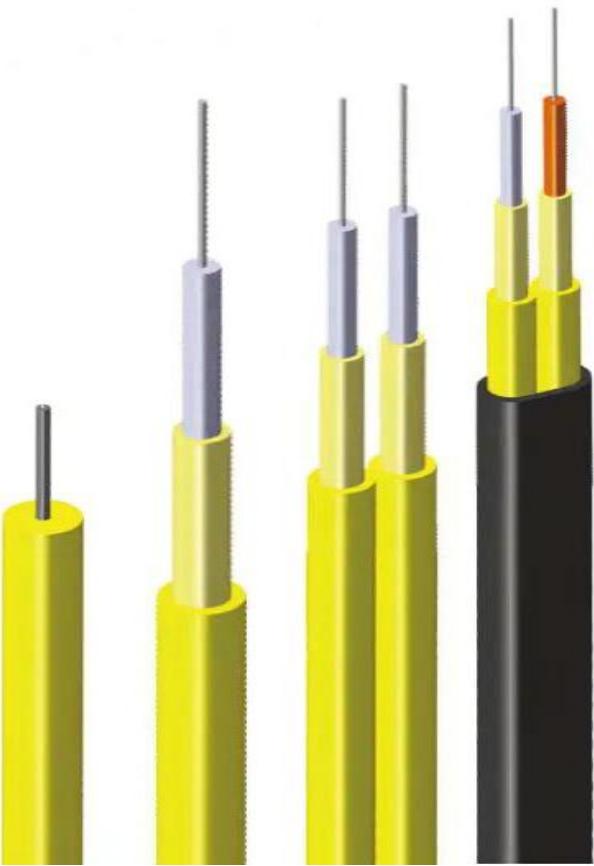
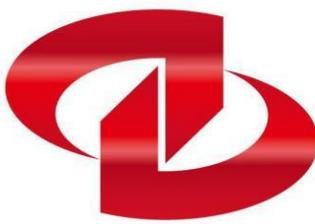




Indoor Multi-fiber Optical Distribution Cables Technical Specification





1. Overview

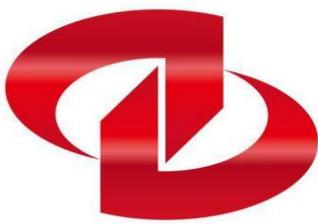
This specification covers four types of indoor multi-fiber optical distribution cables. These cables are designed for high-density, multi-core, and flexible deployment scenarios. They are applicable to data centers, FTTH networks, smart buildings, and industrial automation systems. They serve as basic components for backbone optical cabling, inter-device patching, MPO pre-terminated connector systems, and modular fiber distribution networks.

1.1 Certifications

The cables comply with international standards including UL, ETL, CE, CPR, and RoHS.

2. Product Classification & Technical Parameters

Product Name	Fiber Type	Core Count	Fiber Structure	Strength Member	Jacket Material	Jacket Color	Application Description
Standard Indoor Tight-buffered Cable	G.657.A2	2–24 cores	900µm Tight Buffered	Aramid Yarn (Kevlar)	LSZH	Orange	General indoor backbone cabling; Patch panel interconnection
Mini Indoor Distribution Cable	G.657.A2	2–24 cores	600µm Tight Buffered	Aramid Yarn	LSZH	Orange	High-density cabling; Micro MTP pre-terminated systems
Breakout Indoor Cable	G.657.A2	2–24 cores	Individually jacketed (2.0mm or 3.0mm)	Multiple Aramid + Sub-jackets	LSZH	Orange	Direct LC/SC termination; Patching or equipment runs
Ribbon Indoor Fiber Cable	G.657.A2	12–144 cores	12-core or 24-core ribbon structure	Aramid Yarn + Central Member	LSZH	Orange	High-capacity splicing; MPO/MTP trunk cabling



3. Key Characteristics of Each Product Type

3.1 Standard Indoor Tight-buffered Cable

- Adopts 900 μ m tight-buffered fibers for reliable fiber protection.
- Features compact size, excellent bending and torque performance.
- Configurable in 4/6/8/12/24 core options.
- Easy to strip, terminate and install.
- Applications:** Building backbone cabling; Indoor riser cables for MTP arrayed waveguides; Intermediate levels cabling.

3.2 Mini Indoor Distribution Cable

- Uses 250 μ m bare fibers or 600 μ m buffered fibers.
- Has smaller diameter, lighter weight and higher flexibility.
- Perfectly compatible with MTP/MPO pre-connectorized systems.
- Suitable for narrow passages such as ducts and raceways.
- Applications:** High-density data center cabling; Modular connectivity systems; Fiber aggregation and splitting nodes.

3.3 Breakout Indoor Cable

- Each single fiber is jacketed with 2.0mm or 3.0mm cassettes.
- Can be directly connected with standard SC/LC connectors.
- Enables easy fan-out without the need for exterior fan-out bundles or pigtails.
- Applications:** Point-to-point links between devices; Inter-floor cabling inside buildings; MPO/MTP transfer of multi-core fiber.

3.4 Ribbon Indoor Fiber Cable

- The fiber ribbon consists of 12 or 24 fibers arranged in parallel.
- Supports mass ribbon fan-out with ribbon splice joiners.
- Improves installation efficiency, especially for high-core-count cabling projects.
- Complies with MPO/MTP interconnect systems.
- Applications:** High-speed backbone cabling in large multi-floor buildings; Optical path connection between core switches and transmission equipment; Ribbon-based MPO/MTP structured cabling.

4. Customization Options



1. **Core Configuration:** 4–144 fiber count options are available.
2. **Jacket Colors:** Customizable colors including Dark Red, Olive Green, Brown, Gray, Orange.
3. **Printing & Branding:** Supports special laser printing, logo customization and meter marking.
4. **Packaging:** Options include wooden reels, plastic spools and coil-packed solutions.
5. **Connector Termination:** Optional MPO, SC, LC, FC connectors as required.

5. Supply Specifications

- **MOQ:** 30KM
- **Delivery Time:** Normally 25 working days; Custom orders can be delivered within 7–15 days.
- **Port of Loading:** SHANGHAI