



FTTX Drop Cables Technical Specification





1. Overview

FTTX Drop Cables serve as the final link in high-speed broadband networks. They connect distribution points to end-user premises and support overhead, duct, indoor, and outdoor applications. These cables are engineered for resilience, low bending sensitivity, and easy assembly and installation.

1.1 Certifications

UL, ETL, CE, CPR, RoHS

2. Technical Parameters Comparison

Product Type	Fiber Type	Strength Member	Aarmor Option	Jacket Type	Application Environment
Bow-type Drop Cable A/B	G.657.A2	2×FRP / Steel	No	LSZH	Indoor/outdoor, aerial, duct
Armored Bow-type Drop Cable	G.657.A2	FRP + Steel Armor	Corrugated Steel	LSZH	Rodent-proof, semi-exposed
Aerial/Duct Drop Cable	G.657.A1/A2	Steel/FRP + Messenger	Optional Steel	LSZH	Long-span aerial or buried conduit
Wireless RRU Drop Cable A–G	G.657.A2	FRP / Steel	Some armored	LSZH	Base stations, rooftop, outdoor RRU

3. Product Classification & Details

3.1 Bow-type Drop Cable (A and B)

- **Fiber Types:** G.657.A2 / G.657.A1
- **Strength Members:** 2x FRP or Steel
- **Messenger Wire:** FRP or steel (optional)
- **Dimensions:** 2.0 x 3.0 mm / 2.0 x 5.0 mm
- **Jacket Material:** LSZH (black or white)



- **Applications:** FTTH indoor/outdoor deployments; wall mount, duct, or clamp mounting; compatible with mechanical coiling and fusion splicing

3.2 Armored Bow-type Drop Cable

- **Structure:** FRS + Steel with gap, or UF or Armor
- **Bend Radius:** ≥ 10 times of cable diameter
- **Outer Sheath:** UV-resistant LSZH
- **Applications:** Buildings with rodent risk; surface installations under mechanical stress; long-span deployments requiring robust physical protection

3.3 Fiber-Optic Aerial/Duct Drop Cable

- **Messenger Options:** 1.2mm FRP or 1.0mm Steel
- **Installation Method:** Self-supporting, pole-mounted or ducted
- **Fiber Count:** 1–4 cores
- **Applications:** Long-span FTTH overhead cabling; outside structure cabling; pole-to-home connections

3.4 Wireless RRU Drop Cable (A–G)

- **Design Variations:** Some with armored protection; some with FRP or LSZH coating; supports robust outdoor use and indoor interfacing
- **Common Features:** Low attenuation single-mode fibers; high/medium flexibility with crush resistance; UV-stable LSZH insulation
- **Applications:** 4G/5G base stations; interconnection between Remote Radio Head (RRH) and Base Band Unit (BBU); hybrid fiber-power modular systems

3.5 Customization Options

- **Fiber Count:** 1, 2, or 4 cores
- **Fiber Options:** G.657.A1, G.657.A2, G.652.D
- 1. **Jacket Color:** Black, White, Orange (custom colors available)
- 2. **Messenger Type:** FRP or Steel
- 3. **OEM Services:** Custom branding and labeling
- 4. **Connectorization (Optional):** SC/APC, SC/UPC, LC, pre-terminated
- 5. **Packaging:** Roll, wooden spool, carton, pallet