



Optical Fiber CABLE

TECHNICAL DATA SHEET

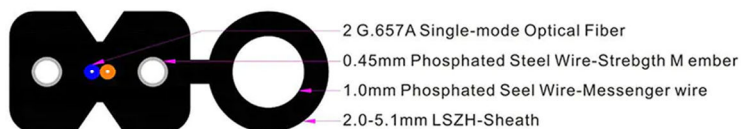
**GJYX(F)CH FTTH Drop Fiber Optical
Cable Indoor & Outdoor**



GJYX(F)CH FTTH Drop Fiber Optical Cable Indoor & Outdoor

Product Description

The GJYX(F)CH FTTH Drop Fiber Optical Cable is a compact, lightweight and self-supporting fiber optic cable designed for FTTH access networks and last-mile applications. It is suitable for both indoor and outdoor installation, including aerial drop, building entrance and indoor subscriber connections.



The cable incorporates single-mode bend-insensitive optical fiber, strength members and an outer sheath providing mechanical protection and reliable environmental performance.

Features

- Self-supporting design for aerial FTTH deployment.
- Compact and lightweight butterfly/bow-type construction.
- Suitable for indoor and outdoor applications.
- Available with **G.657A1 / G.657A2** bend-insensitive single-mode fiber.
- High tensile strength provided by the messenger/strength member.
- Good crush resistance.
- Low bending radius for easy installation.



- UV-resistant outdoor sheath options.
- LSZH sheath option for indoor applications.
- Easy stripping and termination.
- Compatible with common FTTH access network components.

Applications

- FTTH last-mile access networks
- Aerial self-supporting drop installation
- Building entrance/drop connections
- Indoor subscriber connections
- FTTx access networks
- Residential and commercial buildings
- Distribution from FDT/DP to customer premises

General Specifications

Parameter	1 Fiber	2 Fibers	4 Fibers
Fiber Type	G.657A1/A2	G.657A1/A2	G.657A1/A2
Cable Dimension (mm)	2.0 × 5.0	2.0 × 5.0	2.0 × 5.0
Approx. Cable Weight (kg/km)	20	20	20
Long-Term Tensile Strength (N)	300	300	300

Short-Term Tensile Strength (N)	600	600	600
Long-Term Crush Resistance (N/100 mm)	1000	1000	1000
Short-Term Crush Resistance (N/100 mm)	2200	2200	2200
Static Bending Radius	15D	15D	15D
Dynamic Bending Radius	30D	30D	30D
Operating Temperature	-20 to +60°C	-20 to +60°C	-20 to +60°C

Cable Construction

Item	Description
Optical Fiber	Single-mode G.657A1 / G.657A2
Strength Member	Steel wire / FRP, depending on design
Parallel Strength Members	Steel wires
Messenger Wire	Steel wire for self-supporting installation
Outer Sheath	LSZH / PE
Cable Structure	Flat / Bow-type FTTH Drop Cable
Application	Indoor & Outdoor

Optical Fiber Characteristics

Parameter	G.657A1 / G.657A2
Fiber Type	Single Mode
Operating Wavelength	1310 / 1550 nm
Cladding Diameter	$125 \pm 1.0 \mu\text{m}$
Mode Field Diameter @ 1310 nm	$\sim 8.8 \pm 0.4 \mu\text{m}$
Maximum Attenuation @ 1310 nm	$\leq 0.40 \text{ dB/km}$
Maximum Attenuation @ 1550 nm	$\leq 0.30 \text{ dB/km}$
Cable Cut-off Wavelength	$\leq 1260 \text{ nm}$
Zero Dispersion Wavelength	1300–1324 nm
Zero Dispersion Slope	$\leq 0.092 \text{ ps}/(\text{nm}^2 \cdot \text{km})$

Environmental Characteristics

Parameter	Specification
Operating Temperature	-20°C to +60°C
Installation Temperature	-20°C to +60°C
Storage / Transportation Temperature	-20°C to +60°C
Temperature Cycling	IEC 60794-1-2-F1
Water Penetration	IEC 60794-1-2-F5B, where applicable

UV Resistance	Suitable for outdoor exposure with UV-resistant PE sheath
Environmental Resistance	Resistant to temperature variations and normal outdoor environmental conditions
Flame Retardancy	LSZH option available for indoor applications
Applicable Environmental Standard	IEC 60794

Fiber Color Code

Fiber No.	1	2	3	4
Color	Blue	Orange	Green	Brown