

Introduction

FTTH Drop cables are located on the subscriber end to connect the terminal of a distribution cable to a subscriber's premises. They are typically small diameter, low fiber count cables with limited unsupported span lengths, which can be installed aerially, underground or buried. As it is used in indoor or outdoor. Drop cables are available in many different types according to the cable structure. The types of drop cables are Flat Type Drop Cable and Round Drop Cable.



Application:

The FTTH Drop Cable bundles assemblies consist of a between 1~12 core, that enables installation of FTTH Drop Cable. The fiber assemblies are bundled with outer sheath is a PE or LSZH layer that is of low friction. The design makes the fiber cable are suitable for the following applications.

- Indoor and Outdoor connections.
- FTTH and last mile connections.
- Distribution networks with dense fiber capacity.
- Terminal connections.

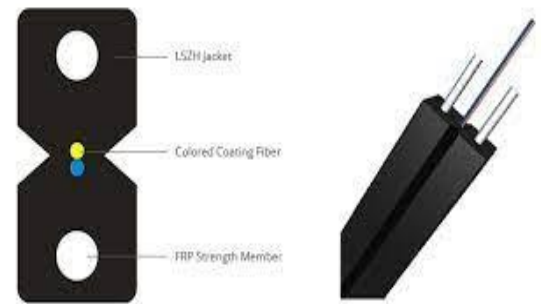
Operation Features:

The FTTH Drop Cable bundles for FTTx systems are dedicated for the indoor or outdoor network infrastructure. The small diameter is suitable to be used in projects requiring large number of slots and the fiber number between 1~12 core optical fiber cable which can be routed into ducts, and optical fiber cable with the following features

- Smaller diameter
- Excellent environmental properties
- Perfect cable structure with high fiber density
- The outer sheath is a PE or LSZH jacket
- Fiber count between 1~12 core
- Singlemode or Multimode
- Fiber: G.652D, G.657A1, G.657A2

FTTH Drop Cable

FTTH Drop Cable is commonly known as indoor hanging wiring cable. It is mostly single-core and double-core structure. It can also be made into a 1 to 12 cores structure with a cross-section of 8-shaped. The reinforcement is located at the center of the two circles. It can be made of metal or non-metal structure. The fiber is located in the geometric center of the 8-shaped shape. The fiber in the cable is made of G.657 small bending radius fiber, which can be laid at a bending radius of 20mm



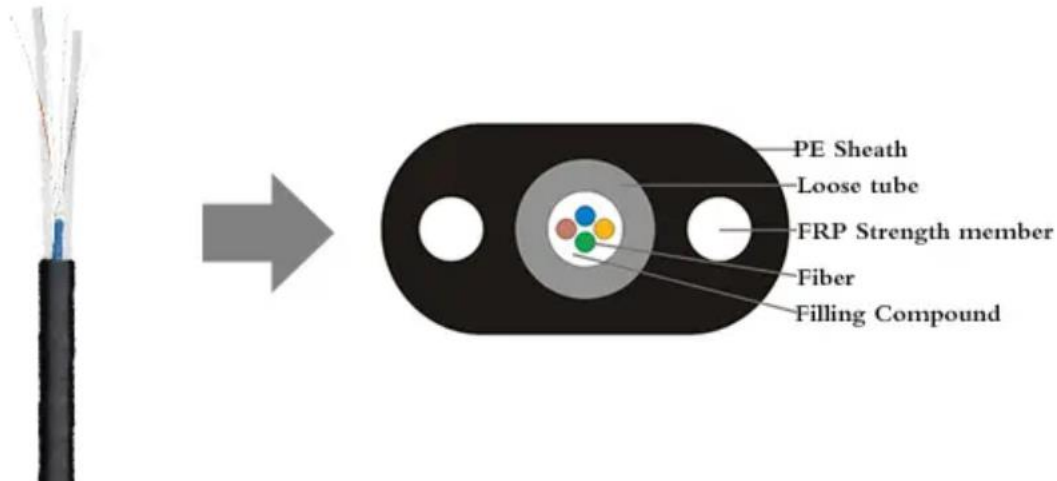
Technical Specifications

- Non-metallic reinforcement, LSZH flame-retardant polyolefin sheath, butterfly-shaped drop cable.
- In FTTH applications, it has both low-cost and good adaptability. Meet the design requirements of various access network optical cables and the use of multiple access methods. The finished fiber optic cable has excellent bending resistance, supports dense wiring, low bending additional loss under a small bending radius, and high mechanical reliability.
- Facilitate construction and distribution of optical cables, easy to splice or connect.
- Suitable for indoor wiring use in fiber-to-the-home projects. The cable structure is 2×3.0 mm butterfly shape. Both sides of the cable are low-smoke and halogen-free outer sheaths with FRP reinforcements. The center of the cable is 1-4 core G. 657A fiber.
- Suitable for indoor wiring use in fiber-to-the-home projects.

Fiber Count	Cable Dimension	Cable Weight	Tensile Strength (N)	Tensile Strength (N)	Crush Strength (N)	Crush Strength (N)	Min. Bending Radius	Min. Bending Radius	Temperature Range
(F)	(mm)	(kgs)	Long term	Short Term	Long term	Short Term	Long term	Short Term	(°C)
1	2.0x5.0	18	300	600	1000	2200	10H	20H	-20~+60
2	2.0x5.0	18	300	600	1000	2200	10H	20H	-20~+60
4	2.0x5.0	18	300	600	1000	2200	10H	20H	-20~+60
6	2.1x5.5	19	300	600	1000	2200	10H	20H	-20~+60
8	2.2x6.4	20	300	600	1000	2200	10H	20H	-20~+60
12	2.2x6.4	20	300	600	1000	2200	10H	20H	-20~+60

Flat Drop Cable

Flat Fiber Optic Drop Cable put in side with 2 FRP, the optical fiber unit positioned in the Loose tube. Two parallel strength members are placed at the two sides and have loose tube to protect fiber, outside sheath is PE or LSZH, It can also be made into a 2 to 12 cores structure.



Technical Specifications

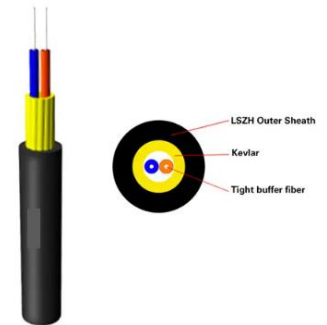
- PE or LSZH flame-retardant polyolefin sheath, butterfly-shaped drop cable.
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Round Drop Cable

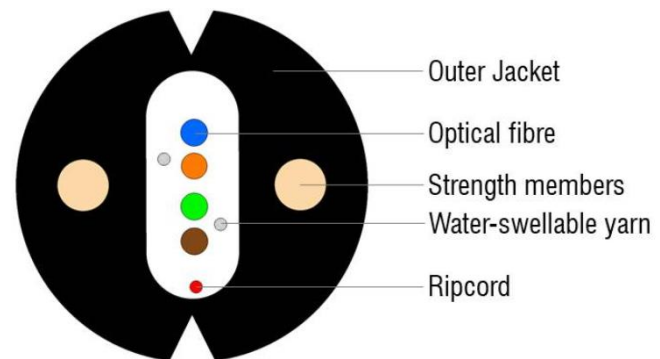
Fully Dielectric Circular Drop Optical Cable recommended for use in FTTx networks for final client access in FTTH or FTTA networks, for self-supported air installations, interconnecting external optical cables from the last splice box to the premises.

Construction with tight buffer fiber, dielectric traction elements coated with a layer of thermoplastic material.



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Mechanical Performance Test compliance

- Tension: IEC 60794-1-21 Method E1
- Bend: IEC 60794-1-21 Method E11
- Crush: IEC 60794-1-21 Method E3

Temperature Performance

- Storage [°C]: -40 to +60
- Installation [°C]: -20 to +50
- Operation [°C]: -30 to +60

Packaging

Standard length of cable is 4,000 meters. Other cable length is also available if required by customer. Each length of the cable shall be wound on a separate wooden reel. Both ends of the cable shall be sealed with a suitable plastic cap to prevent the entry of moisture during shipping, handling and storage. The cable ends shall be securely fastened to the reel to prevent the cable from becoming loose in transit or during placing operations.

Marking

The jacket shall be marked with white characters at intervals of one meter with following information. Other marking is also available if requested by customer.

- 1) Cable type and fiber number
- 2) Name of the manufacturer
- 3) Year of manufacture
- 4) Length marking

Ordering Information

Product Code	Description
LN-LW-1F-Dxx-SM	Drop Fiber Cable Single Mode 1 cores
LN-LW-2F-Dxx-SM	Drop Fiber Cable Single Mode 2 cores
LN-LW-4F-Dxx-SM	Drop Fiber Cable Single Mode 4 cores
LN-LW-8F-Dxx-SM	Drop Fiber Cable Single Mode 8 cores
LN-LW-12F-Dxx-SM	Drop Fiber Cable Single Mode 12 cores

*** Note:**

xx=DFT for the FTTH drop fiber cables
xx=DF for the Flat drop fiber cables
xx=DR for the Round drop fiber cables

** All cables are available in Singlemode or Multimode

Notice: The data in this document are only reference and will be changed without any notice. This specification is intended as a guide only.