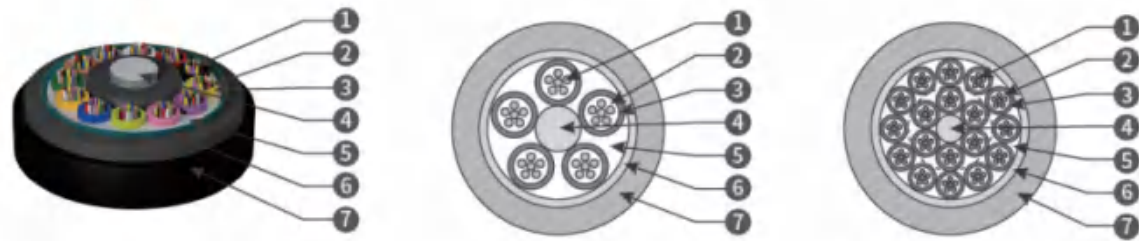


GDTA

Access Network Optical Hybrid Cable

- ① Optical fiber ③ Loose tube ⑤ Cable core filling material ⑦ Polyethylene sheath
② Tube filling material ④ Central strength member ⑥ Coated steel tape



Product Description

Colored optical fibers are placed in a loose tube made of high-modulus, water-resistant material, filled with moisture-blocking gel. The center of the cable is a metal strength member. The loose tube and the required specification of insulated copper conductors are twisted around the center strength member to form a compact circular core. The interstices of the cable core are filled with water-blocking material. After longitudinal wrapping with coated aluminum tape, a polyethylene outer sheath is extruded to form the cable.

Product Feature

- ◆Optical-electrical integration solves the problem of equipment power supply and signal transmission.
- ◆Reduces procurement costs and saves construction expenses.
- ◆Precise control of excess length of optical fibers and cable core structure inside the loose tube ensures that the cable meets the required tensile performance and temperature characteristics of product standards.



Electrical Performance of Insulated Conductors

Cable Model (increments by 2 fibers)	Reference Outer Diameter (mm)	Reference Weight (kg/km)	Allowable Tensile Force Long-term/Short-term (N)	Allowable Crush Force Long-term/Short-term (N)	Reference Structure
GDTA-02~24Xn+2X1.5	11.2	132	600/1500	300/1000	Type I Structure
GDTA-02~24Xn+2X2.5	12.3	164	600/1500	300/1000	Type II Structure
GDTA-02~24Xn+2X4.0	13.4	212	600/1500	300/1000	Type II Structure
GDTA-02~24Xn+2X5.0	14.6	258	600/1500	300/1000	Type III Structure
GDTA-02~24Xn+2X6.0	15.4	287	600/1500	300/1000	Type III Structure
GDTA-02~24Xn+2X8.0	16.5	350	600/1500	300/1000	Type III Structure

Note: Xn represents the fiber type.

2X1.5/2X2.5/2X4.0/2X6.0/2X8.0 indicates the number and specifications of conductors.

Different conductor specifications and quantities of

Electrical Performance of Insulated Conductors

Conductor Cross- Sectional Area (mm ²)	Maximum DC Resistance per Single Conductor (20°C)(Ω/km)	Insulation Resistance(20°C)(MΩ.km)	Withstand Voltage Strength KV, DC 1 Minutes		
		Between each insulated conductor and other metals connected inside the cable	Between conductors	Between conductor and metal armor tape	Between conductor and steel wire
1.5	13.3	Not less than 10000	5	5	3
2.5	7.98				
4.0	4.95				
5.0	3.88				
6.0	3.30				
8.0	2.47				

Note: The relevant performance of feeder conductors meets GB/T3956-2008, and the electrical performance of feeder conductors meets GB/T5023.3-2007.

Environmental Characteristics

Transportation/Storage/Operating Temperature:
-40°C to +70°C

Note:

- The suffix Xn in the model indicates the selected fiber type, see Yangtze Fiber Model Explanation for details.
- The color arrangement of the loose tube and fibers can be found in the chromatogram.
- The minimum thickness of the polyethylene sheath is 1.5mm.

Delivery Length

Recommended Length: 2000m; other lengths can be provided according to customer requirements.

- The cable should not be stored in open - air environments for more than 6 months, otherwise the spool may be damaged.
- This document is for reference only and cannot be used as an attachment to the contract. For detailed product information, please contact our sales staff.