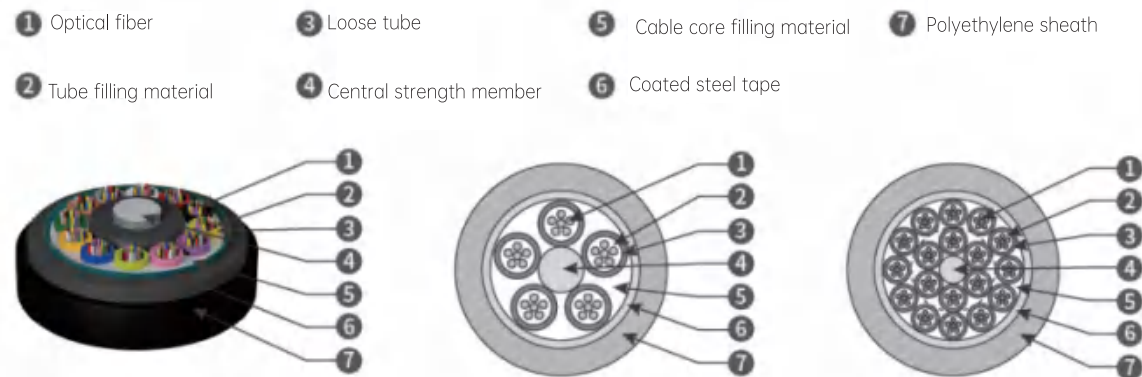


GDS

Access Network Optical Hybrid Cable



Product Description

Colored optical fibers are placed into a loose tube made of high-modulus and water-resistant material, and the tube is filled with thixotropic water-blocking compound. At the center of the cable is a metallic strengthening core. The loose tube, along with insulated copper wires of required specifications, is twisted around the central strengthening core to form a compact circular cable core. Gaps within the cable core are filled with water-blocking material. After double-sided plastic-coated steel tape longitudinal wrapping, the cable is extruded with polyethylene outer sheath

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
GDS-02~24Xn+2X1.5	11.6	157	600/1500	300/1000	Type I Structure
GDS-02~24Xn+2X2.5	12.5	190	600/1500	300/1000	Type II Structure
GDS-02~24Xn+2X4.0	13.6	241	600/1500	300/1000	Type II Structure
GDS-02~24Xn+2X5.0	15.0	282	600/1500	300/1000	Type III Structure
GDS-02~24Xn+2X6.0	15.7	300	600/1500	300/1000	Type III Structure
GDS-02~24Xn+2X8.0	16.9	383	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 hybrid cables can be produced according to customer requirements.

Different numbers of fiber cores for optical-electric composite cables can also be produced according to customer requirements.

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.