

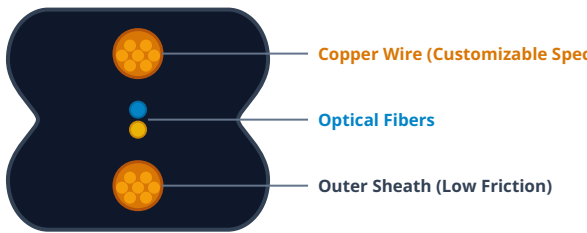
Optical-Electric Composite Drop Cable (GDXH-2B6+2*0.75mm²)

Hybrid Fiber Optic & Power Supply Drop Cable Technical Datasheet

Product Description

The **GDXH-2B6+2*0.75mm² Optical-Electric Composite Drop Cable** features a bow-type structure where an outer low-friction sheath is extruded over the fiber cores. It is embedded with two single strands of 0.75mm² oxygen-free copper cores as strength members and power transmission conductors. Integrating optical fiber and copper wire into a single cable, it effectively solves broadband access, terminal device powering, and signal transmission requirements simultaneously. Outdoor models can be fitted with an additional self-supporting messenger wire on the side as a strength member.

Cable Cross-Section & Component Diagram



Product Features

Hybrid Fiber-Power Integration

Combines optical fibers and power lines within a single cable to deliver simultaneous high-speed data transmission and remote power supply.

High Electrical Insulation & Zero Interference

Features superior insulation performance, ensuring optical data transmission and electrical power transmission operate seamlessly without mutual interference.

One-Time Deployment & Cost Reduction

Enables single-step installation for both data and power, significantly shortening construction periods and reducing overall installation costs.

UV Protection & Weather Resistance

Outer sheath material offers excellent UV resistance under direct sunlight and high insulation properties for long outdoor service life.

Customizable Copper Wire Conductor

Copper wire cross-sectional areas can be fully customized according to specific client power requirements.

Compact, Lightweight & Easy Laying

Small outer diameter and lightweight construction allow for easy routing, bending, and hassle-free installation in tight spaces.

Technical Specifications

Cable Model	Fiber Count	Cable Dimension (mm)	Cable Weight (kg/km)	Allowable Tensile Force (N)		Allowable Crush Resistance (N/100mm)		Bending Radius (mm)	
				Long-Term	Short-Term	Long-Term	Short-Term	Static	Dynamic
GDXH-2B6+2*0.5mm ²	2	2.2 × 5.3	15	400	800	300	1000	10D	20D
GDXH-2B6+2*0.75mm ²	2	2.2 × 5.3	20	400	800	300	1000	10D	20D
GDXH-2B6+2*1.0mm ²	2	2.2 × 5.3	25	400	800	300	1000	10D	20D
GDXH-2B6+2*1.5mm ²	2	2.5 × 6.0	35	400	800	300	1000	10D	20D
GDXH-2B6+2*2.5mm ²	2	3.0 × 7.0	60	400	800	300	1000	10D	20D

Note: The above data is for reference only; Cable storage and operating temperature range: -40°C to +70°C.