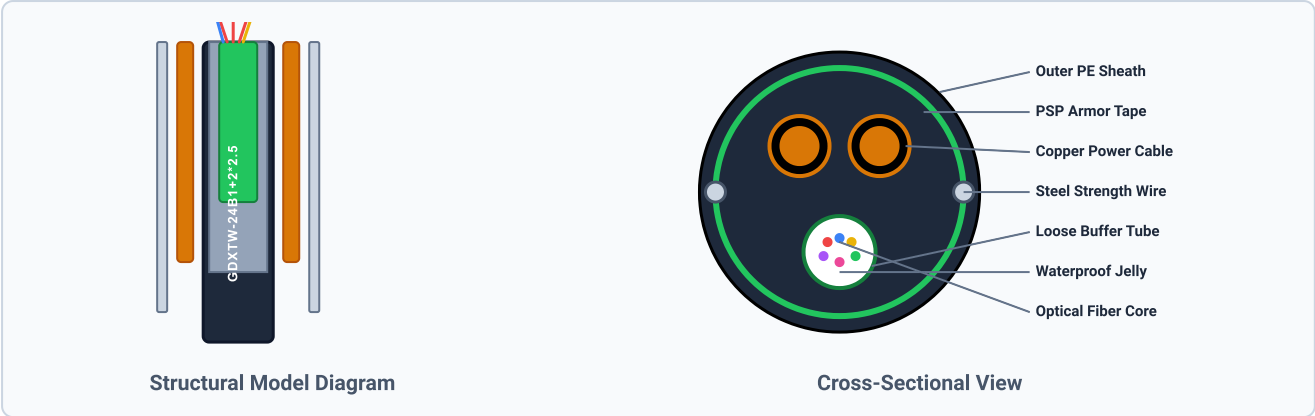


GDXTW Hybrid Optical & Power Cable

PHOTOELECTRIC COMPOSITE OUTDOOR OPTICAL FIBER CABLE



PRODUCT DESCRIPTION

The structure of **GDXTW photo-electric hybrid optical cable** is designed by inserting single-mode or multi-mode optical fibers into a loose tube made of high-modulus polyester material, filled with a waterproof compound. The loose tube and insulated copper conductors of specified specifications are wrapped longitudinally with corrugated steel tape (PSP). Two parallel steel wires are placed on both sides before extruding a polyethylene (PE) outer sheath to form the complete cable.

KEY FEATURES

- Optoelectronic Integration:** Solves power supply and signal transmission simultaneously, providing centralized monitoring and maintenance of equipment power.
- Mechanical Tensile Resistance:** Two parallel steel wires guarantee high tensile strength and compression resistance.
- Cost Reduction:** Lowers procurement costs, eliminates secondary power line construction, and saves installation expenses.
- Precise Excess Length Control:** Ensures superior mechanical and temperature properties for optimal optical performance.
- High Adaptability:** Compatible with diverse equipment and terminal devices with strong versatility and scalability.
- Broad Applications:** Ideal solution for FTTH, 5G micro base stations, and mobile communication terminal power supply.

TECHNICAL PARAMETERS

Conductor Cross-Section (mm ²)	Max. DC Resistance per Conductor (20°C, Ω/km)	Insulation Resistance (20°C, MΩ·km)	Insulation Dielectric Strength (kV, DC 1 min)		
		Each insulated wire to other grounded metallic parts	Between Conductors	Conductor to Armor Tape	Conductor to Steel Wire
1.5	13.3	≥ 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: Data above is for reference only. Storage & Operating Temperature: -40°C to +70°C.

COMPLIANCE STANDARDS

- GDXTW Hybrid Cable:** Complies with YD/T 981.2 standards.
- Feeder Conductor Performance:** Conforms to GB/T 3956-2008.
- Electrical Performance:** Meets GB/T 5023.3-2007 requirements.

