

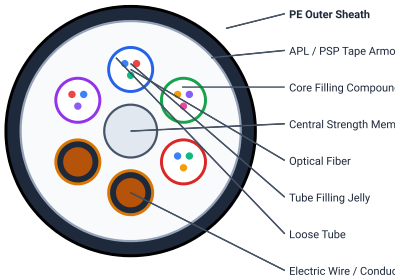
STRANDED PHOTOELECTRIC COMPOSITE CABLE

Model: GDTA/S

» PRODUCT DESCRIPTION

The structure of the **GDTA/S Photoelectric Composite Cable** involves inserting single-mode or multi-mode optical fibers into a loose tube made of high-modulus plastic, filled with a waterproof compound. The center of the cable core is reinforced with a metallic strength member. For cables with specific fiber counts, a layer of polyethylene (PE) is extruded outside the strength member.

The loose tubes and insulated copper conductors of required specifications are stranded around the central strength member to form a compact and circular cable core. Interstices within the cable core are filled with water-blocking compound. An Aluminum Tape (APL) or Corrugated Steel Tape (PSP) armor is longitudinally applied before extruding a Polyethylene (PE) outer sheath.



» PRODUCT FEATURES

- **Photoelectric Integration:** Solves power supply and signal transmission for devices in a single cable, enabling centralized monitoring and maintenance of equipment power.
- **Enhanced Manageability:** Improves power management capabilities while reducing coordination overhead and maintenance costs.
- **Cost Efficiency:** Reduces purchasing costs and eliminates secondary wiring, saving installation and construction expenses.
- **Superior Performance:** Precisely controlled optical fiber excess length ensures excellent tensile resistance and temperature stability.
- **System Compatibility:** Ideal for distributed base station DC power supply systems, connecting Building Baseband Units (BBU) and Remote Radio Units (RRU).
- **Installation Versatility:** Suitable for pipeline or aerial deployment applications.

» TECHNICAL PARAMETERS

Conductor Cross-Section Area (mm²)	Max. Single Conductor DC Resistance (20°C) (Ω/km)	Insulation Resistance (20°C) (MΩ·km)	Insulation Dielectric Strength (kV, DC 1 min)		
		Between Insulated Wire & Other Metals in Core	Between Wires	Between Wires & Metal Armor	Between Wires & Steel Wire
1.5	13.3	≥ 10,000	5	5	3
2.5	7.98				
4.0	4.95				
5.0	3.88				
6.0	3.3				
8.0	2.47				

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

» PRODUCT STANDARDS

GDTA/S Photoelectric Composite Cable complies with **YD/T 901** and **IEC 60794-1** standards. Power conductor relevant performance satisfies **GB/T 3956-2008**; Power conductor electrical performance satisfies **GB/T 5023.3-2007**.

