

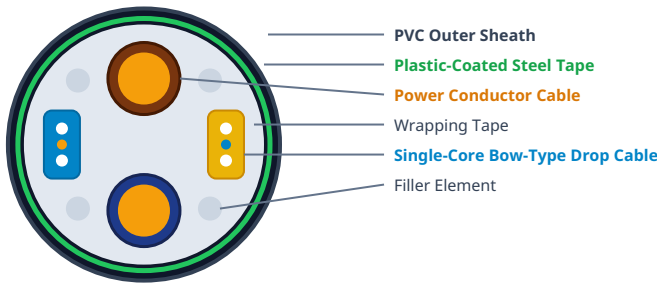
5G Photoelectric Composite Cable (GDVV)

Hybrid Fiber Optic & Low-Voltage Power Cable Technical Datasheet

Product Description

The **5G Photoelectric Composite Cable (GDVV)** is a hybrid cable that integrates optical fiber units into a low-voltage power cable structure, combining both electric power transmission and optical communication capabilities. It is suitable for rated voltage levels of 450/750V AC and below. The GDVV 2G.G657A2 (Bow-type) + 2×1.5 mm² model contains two 1.5 mm² insulated electrical conductors and two single-core bow-type drop optical units (each optical unit contains 1 optical fiber core).

Cable Cross-Section & Structural Diagram



Product Features

Compact Profile & Conduit Optimization

Small outer diameter and lightweight build reduce overall bulk, conserving space and saving valuable duct/conduit resources.

G.657 Bend-Insensitive Fiber

Utilizes G.657 bend-insensitive optical fiber to deliver high-speed, ultra-stable data transmission even under tight bend radii.

Cost Reduction & CAPEX Efficiency

Eliminates secondary cabling runs, lowering procurement costs and significantly reducing overall installation labor expenses.

Controlled Excess Fiber Length

Precisely controlled fiber excess length ensures excellent tensile resistance and superior thermal stability across varied environments.

Broadband Access & Remote Powering

Provides integrated high-speed broadband connection alongside reliable power supply for active network equipment.

Integrated Solution for FTTH & 5G Terminals

Solves simultaneous communication and power feed requirements for FTTH setups and mobile communication network terminals.

Technical Specifications

Cable Model	Cable Cores	Cable Weight (kg/km)	Operating Temperature Range (°C)		Allowable Tensile Force (N)		Allowable Crush Resistance (N/100mm)		Bending Radius (mm)	
			Power Line	Other Components	Long-Term	Short-Term	Long-Term	Short-Term	Static	Dynamic
CB2 x GJXH + 2 x 1.5mm ²	4	115	-15°C ~ +70°C	-40°C ~ +70°C	200	660	300	1000	10D	20D
CB2 x GJXH + 2 x 1.5mm ²	4	145	-15°C ~ +70°C	-40°C ~ +70°C	200	660	300	1000	10D	20D

Product Name	Power Cable		Bow-Type Optical Cable		Hybrid Sheath
	Conductor	Insulation	Strength Member	Material	Material
CB2 x GJXH + 2 x 1.5mm ²	Bare Copper	PVC	Steel Wire	LSZH	PVC
CB2 x GJXH + 2 x 1.5mm ²	Bare Copper	LSZH	Steel Wire	LSZH	LSZH
CB2 x GJXH + 2 x 2.5mm ²	Bare Copper	PVC	Steel Wire	LSZH	PVC
CB2 x GJXH + 2 x 2.5mm ²	Bare Copper	LSZH	Steel Wire	LSZH	LSZH

Note: The above data is for reference only.

Product Standards: Complies with YD/T 2289.3 standard for 5G Photoelectric Composite Cables.