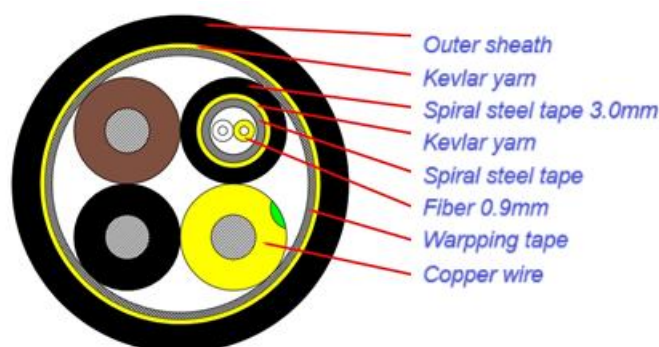


# Armored optical-electric hybrid cable

## Product description:

GJPFJKH-2B1-RV 3\*16AWG The optical cable structure is to wind a layer of spiral stainless steel wire armor on the surface of the 0.6mm tight-coated optical fiber, lay a multi-stranded aramid fiber outside the armor layer to play a strengthening role, and then extrude a PVC (or LSZH) outer sheath. The optical cable is twisted with wires and made into an optical-electric hybrid cable with an LSZH outer sheath.

## Product sectional drawing:



## Product features:

Combines optical fiber and electrical conductors in one cable, enabling simultaneous transmission of data and power—ideal for remote monitoring, smart poles, or outdoor IoT applications.

- High-strength aramid, high-performance sheath material for external protection
- Small bending radius, lightweight, soft, flexible, and easy to splice
- Excellent mechanical and environmental performance · Flame retardant or non-combustible sheath, providing good safety protection

## Product applications:

- Various conventional connector products
- Tail fibers, cords
- Optical connections for optical devices, instruments, etc.
- Indoor horizontal wiring, vertical wiring within the building; LAN network, multi-information point connection
- Long-distance, field, building wiring optical fiber mixed with cable duct, etc. Optical connection
- Backbone network tail cable, equipment access to the building

- This optical cable is suitable for fiber to the and under the carpet ceiling wiring.
- Small minimum bending radius, can be used for large capacity, multi-client indoor overall laying, unit wiring, and can be used independently branching, and can be easily connected to various end devices
- Recommended for high-density wiring, where installation space and installation curvature are small

## Product standard:

GJPKH-2B1-RV 3\*16AWG Mechanical properties: The optical cable should conform to the YD/T901-201 test requirements for stretching, flattening, impact, repeated bending, twisting, winding, wear, etc.

## Optical properties:

		B1.3	B6A1	B6A2	A1b	A1am550
Attenuation (+20°C)	850nm				≤3.5dB/km	≤3.5dB/km
	1300nm				≤1.5dB/km	≤1.5dB/km
	1310nm	≤0.4dB/km	≤0.4dB/km	≤0.4dB/km		
	1550nm	≤0.3dB/km	≤0.3dB/km	≤0.3dB/km		
Bandwidth (Class A)	850nm				≥500MHZ·km	≥500MHZ·km
	1300nm				≥600MHZ·km	≥1000MHZ·km
Numerical aperture					0.275±0.015NA	0.200±0.015NA
Cut-off wavelength		≤1260nm	≤1260nm	≤1260nm		

## Optical cable performance

Optical cable model	indoor	GJPFJKH-2B1-RV 3*16AWG
Clad fiber size	mm	0.6mm±0.1
Fiber model	SM	G657A2
Loose buffer	material	TPE
Armored tube diameter	mm	1.8±0.1
Armored tube material	/	SUS204
Weaving	/	w/o
Strength member	Kevlar yarn	4*1000D
Inner sheath O.d	mm	3.0±0.1
Inner sheath material	/	PVC
Power wire elements	Material	Bare copper stranded wire
	Cross-sectional area	16AWG
	Q*OD (mm)	7*0.5±0.01
Insulation	Material	PVC

	Wall thickness Type mm	0.76
	Wall thickness Min mm	0.69
	Wire diameter(mm)	3.0±0.15
	color	Black, brown, yellow-green or customized
Stranded conductor coating	Warpping tape	0.1±0.01mm
Reinforcement components	Kevlar Yarn	12*1000D
Cable outer diameter	mm	9.5±0.3
Cable jacket material	/	LSZH
Cable sub-unit operating temp	°C	-20-+70
Operating temperature	°C	-15-+70
C weight	Kg/km	115KG/KM (excluding packaging)
Jacket color	/	Black
Bending radius	mm	Dynamic 50D, Static 40D
Tensile strength	N	Long term300N; short term 800N
Compressive strength	N/10CM	Long term 1000N; short term 2000N