Product specification			Cable name	High definition photoelectric composite cable
			Version	01
Project			Product structure	
Power cord			$4 \times 0.5 + 2B6 + 2 \times 0.18$	
	Conductor	Materials	Tinned copper wire	
		Structure	$21/0.18 \pm 0.01$ mm	
		Reference twisted outer diameter	0.9 mm	
	Insulation	Recognition	White, black	
		Average thickness	0.4 mm	
		Outside diameter	1.7 ± 0.1 mm	
Signal line	Conductor	Materials	Tinned copper wire	
		Structure	$7/0.18 \pm 0.01$ mm	
		Reference twisted outer diameter	0.55 mm	
	Insulation	Recognition	Red, grey	
		Average thickness	0.3 mm	
		Outside diameter	1.2 ± 0.1 mm	
Optical fiber	Type of optical fiber		Double-core single-mode Shi Ying fiber G657	
	Mode field diameter		$9.5 +/-1 \mu$ m	
	Core diameter		$125 +/-3 \mu$ m	
	Deviation of core		Below 1μ m	
	Cut-off wavelength		$1.10 \sim 1.35 \mu$ m	
	Covering outer diameter		0.9 mm	
	Attenuation characteristics		$\leqslant 0.5$ dB/km $(1.3 \mu$ m)	
Cabling	Wire core twisting	Wire core arrangement	According to product structure drawing	
		Reference twisted outer diameter	$\leqslant 5.7$ mm	
	Wrap cladding	Materials	Glass cloth tape	
		Thickness	0.08 mm	
		Reference wrapping outer diameter	$\leqslant 5.9$ mm	

Shielding	Knitting Shielding	Tin-plated copper braiding	0.1
		Weaving density	≥ 90%
		Outer diameter	≤ 6.3 mm
Outer sheath	Extruded outer sheath	Materials	Black low smoke halogen-free flame retardant sheath
		Color	Black
		Average thickness	1.0 mm
		Thickness of thinnest point	0.5 mm
		Outside diameter of cable	9.2 ±0.2 mm
		Printing	SMPTE311M Hybrid-HDTV-Camera Cable FRNC

Performance	Conductor resistance (20 ℃)	Power cord	≤ 18.75 Ω /km
		Signal line	≤ 113 Ω /km
	Withstand voltage		1750V/5min

Product structure diagram	
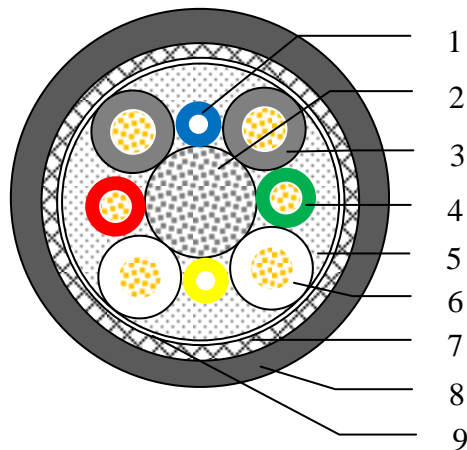
1-tightly wrapped optical fiber 2-Reinforcement 3-Power cord; 4-Signal line 5-Glass fiber filling

6-Power cord 7-Weaving 8-Low smoke halogen-free flame retardant sheath 9-Glass cloth tape

Remarks	During cable production, the specific structure and materials of products can be adjusted according to customer requirements