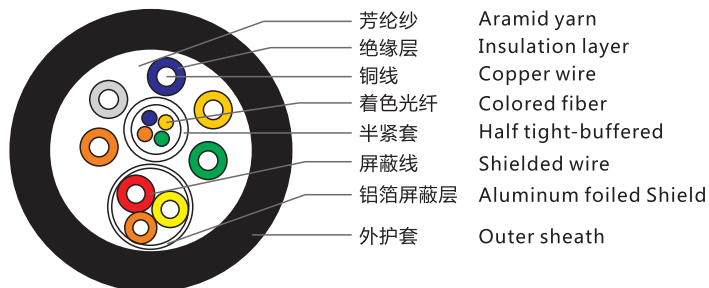


HDMI 光电混合缆

HDMI Optical and Electrical Hybrid Cable



产品结构示意图 Cross-sectional view



产品特点 Characteristics

- 最大传输长度100米
Max. Transmission Length 100m
- 总带宽可以达到18Gbps
Total Bandwidth 18Gbps
- 支持4K@60hz超高清显示
Support 4K@60hz Ultra HD
- 兼容HDMI2.0, 向下兼容HDMI1.4/HDMI1.3
HDMI2.0, Downward Compatible HDMI1.4/HDMI1.3
- 无需任何外部供电
No External Power Supply Needed
- 光缆更轻、更细, 重量和体积较传统铜缆减少70%以上
Over 70% Smaller and Lighter than HDMI Copper Cable
- 具有极佳的抗电磁干扰特性
Excellent Performance of Anti-electromagnetic Interference

技术特性和参数 Technical specifications

光纤特性 Optic fiber character	
几何特性 Geometrical character	
项目 Items	技术要求 Requirements
芯径 (μm) Core diameter	50±2.5
芯不圆度 (%) Core non-circularity	≤5.0
包层直径 (μm) Cladding diameter	125.0±1.0
包层不圆度 (%) Cladding non-circularity	≤1.0
涂层直径 (μm) Coating diameter	245±7
涂层/包层同心度误差(μm) Coating/cladding concentricity error	≤12.0
涂层不圆度 (%) Coating non-circularity	≤6.0
芯/包层同心度误差(μm) Core/cladding concentricity error	≤1.0

HDMI 光电混合缆

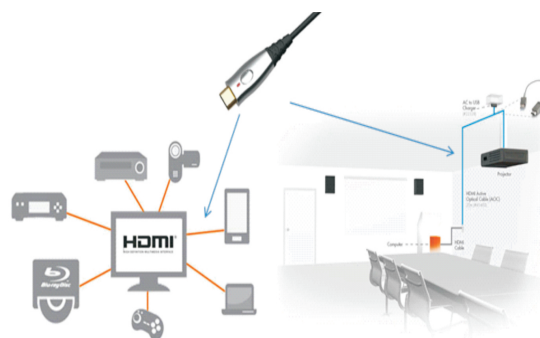
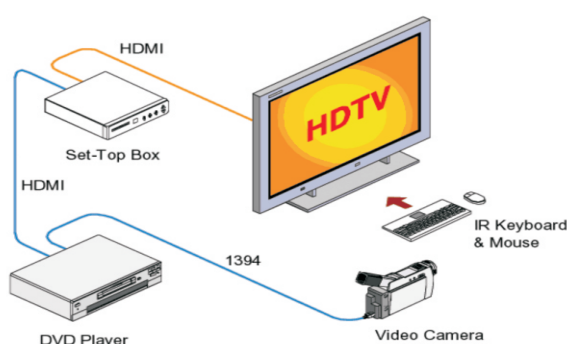
HDMI Optical and Electrical Hybrid Cable



光学特性 Optical Character			
项目 Items	技术要求 Requirements		
衰减 (dB/km) Attenuation	850nm	≤2.3	
	1300nm	≤0.6	
满注入带宽 OFL Bandwidth	850nm (MHz.km)	≥1500	
	1300nm (MHz.km)	≥500	
有效模带宽 Effective Model Bandwidth	850nm (MHz.km)	≥2000	
传输距离 Transmission Distance	万兆以太网 10 gigabit Ethernet	SX 850nm (m)	300
	千兆以太网 gigabit Ethernet	SX 850nm (m)	1000
	千兆以太网 gigabit Ethernet	LX 1300nm (m)	600
数值孔径 (NA) Numerical Aperture (NA)			0.200±0.015
有效群折射率 Effective Group Refractive Index	850nm	1.482	
	1300nm	1.477	
零色散波长 (nm) Zero-dispersion wavelength			1295-1320
衰减一致性 (dB/km) Attenuation consistency			≤0.08

环境特性 (850nm 和1300nm) Environmental Property		
项目 Items	技术要求 Requirements	
温度附加衰减 -60°C到+85°C (dB/km) Temperature attenuation -60°C to +85°C (dB/km)	≤0.10	
温度-湿度循环附加衰减 -10°C到+85°C, 98%相对湿度 (dB/km) Temperature-humidity cycling attenuation -10°C to +85°C, 98% relative humidity (dB/km)	≤0.10	
浸水附加衰减 23°C, 30天 (dB/km) Water immersion attenuation 23°C, 30 days (dB/km)	≤0.10	
湿热附加衰减 85°C和85%相对湿度, 30天 (dB/km) Hot Humidity attenuation 85°C and 85%relative humidity, 30天 (dB/km)	≤0.10	
干热老化85°C (dB/km) Dry heat aging 85°C (dB/km)	≤0.10	

应用方案 Solution



- 为大型会议室、多屏媒体教学等商用环境等提供高清信号传输理想解决方案。
Applicable to large-scale meeting room, multi-screen media education, etc. It can provide satisfied solution to HD signal transmission.

- 消费类场景的HDMI2.0 高清信号拉远应用。
Application of HDMI2.0 HD Signal in Consuming