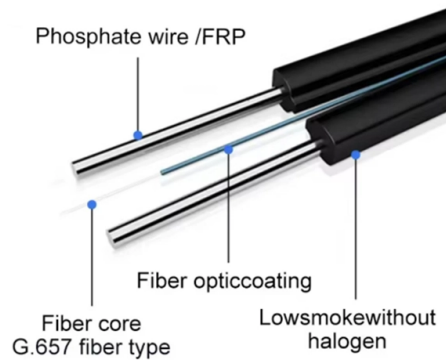


EFP optical cable



Overview

The transmitter is connected to the camera, while the receiver is connected to the monitoring or recording equipment.

Key Takeaways

EFP optical cable is a fiber-optic cable used in Electronic Field Production to transmit high-quality video, audio, and metadata over long distances with minimal signal loss.

Overview

EFP (Electronic Field Production) involves multi-camera setups for live events, concerts, sports broadcasts, and entertainment shows, requiring a stable, high-quality transmission path. Unlike ENG (Electronic News Gathering), which is typically single-camera and mobile, EFP setups rely on multiple cameras, a director, technical crew, camera control units (CCU), video switchers, intercoms, and monitoring systems. To support these complex workflows, optical fiber cables are used to carry 12G-SDI signals, enabling uncompressed 4K video transmission over long distances without degradation (Voscom) .

Technical Features

- Fiber-optic transmission: EFP optical cables use light to transmit data, similar to standard fiber-optic cables, which consist of a glass or plastic core surrounded by cladding and protective layers to prevent signal loss and interference (Wikipedia, Cable Matters) .
- High bandwidth: Supports 12G-SDI, allowing native 4Kp60 video, low jitter, and minimal latency.

- Long-distance capability: Can transmit signals over hundreds of meters to kilometers, far exceeding the limits of copper SDI cables.
- Immunity to interference: Fiber-optic cables are resistant to electromagnetic interference, ensuring stable video feeds even in challenging environments.
- Lightweight and flexible: Easier to deploy in stadiums, concert venues, or elevated camera positions where heavy copper cables would be impractical.

Applications

EFP optical cables are widely used in:

- Live sports and concert broadcasts: Connecting cameras positioned far from the control room or OB van.
- Multi-camera entertainment shows: Ensuring synchronized, high-quality feeds for video switchers.
- Remote production kits and flypacks: Lightweight fiber connections allow flexible deployment across large stages or outdoor venues.
- High-frame-rate or slow-motion cameras: Providing the necessary bandwidth for uncompressed video signals.

Advantages Over Copper Cables

Compared to traditional copper SDI cables, EFP optical cables:

- Reduce signal degradation over long distances.
- Minimize cable weight and setup complexity.
- Integrate audio, metadata, tally, and timecode along with video.
- Enable more reliable 4K and HDR workflows in field production environments (Voscom) . In summary, EFP optical cables are specialized fiber-optic cables designed for professional field production, providing high-bandwidth, long-distance, and interference-free transmission for multi-camera live events and complex broadcast setups.

Article Content

EFP-998-LSZH-100M

EFP-998-LSZH-100M 100m/328ft- MPO/MPO (f/f) EasyFiber Patch Cable. 8 Strand OM3 50/125 SCP EasyFiber™ w/Corning®

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EFP110 Series OM1 62.5/125 Multimode Fiber Optic Patch Cable - Ceramic Terminated, OFNP Plenum Our best terminated

367006 Sloan EFP6A Sensor Cable Assembly For ETF-600/ETF

The EFP-6 is a faucet sensor replacement kit specifically for the ETF-600 and EBF-615 style faucet. The kit contains the ETF-600

ENG EFP Camera Fiber Extension Adapter with Power Converter

This EFP camera fiber optic system also could simplify signals transmission and wiring between studios, control rooms and machine

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4K EFP Over Fiber Optical Extender /EFP Photoelectric Hybrid Cable ...

The 4K EFP Over Fiber Optical Extender is a high-performance device that enables the transmission of high-definition video signals

Advanced EFP Fiber System: 12G-SDI, Audio, TALLY, Intercom

An EFP (Electronic Field Production) fiber transmission system is an optimal technology used in broadcasting and live event

4K EFP Fiber Optic Transmission System

1 pports 12G-SDI backward compatible with various standards such as 6G, 3G, and 1.5G. 2.Multiple remote control interface

4K EFP to Fiber Camera System For Live Event

4K EFP to fiber- Fiber system for EFP live event or ENG and ESP Includes a Camera Optic Adaptor and a Optic Base Station.The

EFP over fiber Optical extender /EFP photoelectric hybrid cable

EFP over fiber Optical extender /EFP photoelectric hybrid cable camera power transmission system 12G SDI Extender No reviews

4K EFP Over Fiber Optical Extender /EFP Photoelectric Hybrid Cable ...

The transmitter is connected to the camera, while the receiver is connected to the monitoring or recording equipment. The hybrid

12G-SDI Camera EFP Fiber Converter

The system puts all of the signals needed for multi-camera 12G-SDI production on a SMPTE hybrid cable, insuring robust, trouble

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

