

PELCO

PELCOFIBER DIGITAL FIBER OPTIC TRANSMISSION



PROTECTING

PEOPLE AND PROPERTY IN A
MILLION LOCATIONS WORLDWIDE



PelcoFiber
Solutions for the Long Run



FOR RELIABLE VIDEO/DATA COMMUNICATIONS,
PELCOFIBER SOLUTIONS – REACHING GREATER LENGTHS.

TODAY'S SECURITY PROFESSIONALS ARE CHALLENGED BY AN EVER-INCREASING NUMBER OF INSTALLATIONS BEYOND THE REACH OF STANDARD COAXIAL TRANSMISSION CAPABILITIES. PELCOFIBER™ TECHNOLOGY HELPS MEET THESE GROWING DEMANDS BY UTILIZING THE BEST TRANSMISSION QUALITY AVAILABLE OVER EXTENDED DISTANCES.

IDEAL FOR APPLICATIONS IN CAMPUS ENVIRONMENTS, FOR TRANSPORTATION, INDUSTRIAL FACILITIES OR ANYWHERE EXTENDED DISTANCES AND EXCEPTIONAL TRANSMISSION QUALITY IS NEEDED, PELCOFIBER OFFERS A FULL-LINE OF SUPERIOR FIBER OPTIC CABLING SOLUTIONS SPECIFICALLY DESIGNED TO MEET THE REQUIREMENTS OF SECURITY SYSTEMS. FOR RELIABLE VIDEO/DATA COMMUNICATIONS, LOOK TO PELCOFIBER-SOLUTIONS FOR THE LONG RUN.

WHERE QUALITY, EFFICIENCY AND A ROBUST OPTICAL BUDGET COME TOGETHER.

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GOING THE DISTANCE

With coaxial systems, video/data signals can begin to degrade when transmitted beyond just 300 meters. But with PelcoFiber, we offer an exceptional optical budget up to 28db and can easily transmit up to 46km when using single mode with no loss of image clarity or quality. Pelco utilizes the full capacity of a 1310nm wavelength (in single mode) to transmit video, while most other systems only transmit video on an 850nm wavelength—greatly reducing your optical budget. PelcoFiber is an all-digital, 8-bit video/data transmission solution, and exceeds all requirements for the RS-250C Medium Haul Transmission Specification.

COMPATIBILITY

PelcoFiber transmitter/receiver units are compatible with and can quickly be set to work with the industry's most popular data transmission formats via a simple back-panel selector, including compatibility with RS-232, RS-422, RS-485 (2-wire and 4-wire), Bi-Phase, and Manchester® data communications systems. A PelcoFiber plug-in module for Spectra III positioning systems offers extremely easy/efficient RS-422/Coaxitron integration, and PelcoFiber transmission systems are designed to meet NEMA and Caltrans specifications for Traffic Signal Control Equipment.

EFFICIENCY BY DESIGN

PelcoFiber transmitters and receivers make use of an efficient universal design, allowing, in most cases, for units to function as a stand-alone product or to be mounted within a standard rack system—adding installation flexibility and helping reduce the need to order and stock redundant units. Each PelcoFiber module also comes with a universal plug-in power supply for stand-alone applications.

THE ULTIMATE PROTECTION

Not only do PelcoFiber transmission systems offer the best in product features, they also come with the best support in the industry. With Off-the-Shelf Product Availability, Guaranteed Ship Dates, 24-Hour Service & Repair Guarantees, and around the clock Person-to-Person technical support from Pelco... no one even comes close to matching the value of the PelcoFiber system.



QUALITY CABLING SOLUTIONS

Not only is the PelcoFiber product line designed to be easily installed and highly compatible, it is also backed by Pelco's industry-famous 100 percent Customer Satisfaction Guarantee. Creating quality solutions to accommodate the high quality-high bandwidth, high-reliability of security systems, PelcoFiber products are the perfect fit for your next structured cabling installation.

DATA

The data-only line of PelcoFiber products provides the ability to transmit and receive single-channel and four-channel bi-directional data over a single fiber optic cable. With multi-mode or single mode and the ability to be rack-mounted or used as standalone modules, the data-only product line provides the features necessary to create a quality cabling solution.



VIDEO

The video-only line of PelcoFiber products provides the ability to transmit and receive single-channel to sixteen-channel composite video over one optical fiber in both multi-and single-mode. With extended distances of up to 46 km and other great features, the video only line of PelcoFiber products fulfills your structured cabling needs.



VIDEO AND DATA

Providing the ability to transmit and receive both unidirectional composite video channels and bi-directional data channels over a single optical fiber, the video and data line of PelcoFiber products have all the features necessary to meet your structured cabling needs. The FS85011/FSM85011 series of fiber transmitters are designed for quick and easy installation into the back box of a Spectra III and Spectra Mini dome. From single-channel to four-channel to eight-channel, all with bi-directional data and supporting the most popular data protocols, these models provide the functionality that you need to meet the requirements of video security cabling installations.



KEY PELCOFIBER APPLICATIONS

PelcoFiber delivers a powerful, efficient, structured cabling solution to meet the needs of a variety of applications including:

TRANSPORTATION

PelcoFiber transmission systems are designed to meet NEMA and Caltrans specifications for Traffic Signal Control Equipment. The temperature-hardened products help protect against extreme temperature and humidity, making PelcoFiber the perfect solution for transportation applications.



EDUCATION

Extended run-lengths of up to 46km and an incredible optical budget of up to 28db make PelcoFiber ideal for educational facilities. From connecting a library to a student union, to delivering campus-wide information to a security center, PelcoFiber products deliver.



INDUSTRIAL

With immunity to virtually all types of electromagnetic and radio interference – including lightning – a longer life than coax or copper wiring, long run-lengths and a robust optical budget, PelcoFiber products are perfect for industrial applications.



OPTIONAL ACCESSORIES

WM5001-3U	Wall mount base kit for single-width module
WM5001-3	Wall mount expansion kit for single-width module
WM5002-3U	Wall mount base kit for double-width module
WM5002-3	Wall mount expansion kit for double-width module
WM5003-3U	Wall mount base kit for triple-width module
WM5004-3U	Wall mount base kit for quadruple-width module
RK5000-3U	19-inch rack mount chassis for 14 slots, no power (3RUs)
RK5000PS-3U	19-inch rack mount chassis for 12 slots with power (3 RUs)
EPS5000-120	External rack power supply, 1 RU, dual 120 W power outputs
RK5001B-3U	Blank filler panel, single width
RK5002B-3U	Blank filler panel, double width
RK5001-iUEXP	Adapter kit that allows a 3 RU single-width fiber module to be used in RK5000PS-5U rack mount chassis
RK5002-iUEXP	Adapter kit that allows a 3 RU double-width fiber module to be used in RK5000PS-5U rack mount chassis
RK5003-iUEXP	Adapter kit that allows a 3 RU triple-width fiber module to be used in RK5000PS-5U rack mount chassis
RK5004-iUEXP	Adapter kit that allows a 3 RU quadruple-width fiber module to be used in RK5000PS-5U rack mount chassis

MODEL NUMBER SELECTION GUIDE

Choose from a wide range of Pelco fiber optic transmitters and receivers to best fit your application.

Bi-Directional Data								
Data Channels	Mode	ST Connectors		FC Connectors		Optical Budget	Maximum Transmission Distance	Rack Slots
		Transmitter	Receiver	Transmitter	Receiver			
Single	Multi Mode	FT8101MSTR	FR8101MSTR	FT8101SFCR	FR8101SFCR	20 dB	6 km (3.7 mi)	1
	Single Mode	FT8101SSTR	FR8101SSTR			20 dB	30 km (18.6 mi)	1
Single	Multi Mode	FT8101AMSTR	FR8101AMSTR	FT8101ASFCR	FR8101ASFCR	26 dB	8 km (5.0 mi)	1
	Single Mode	FT8101ASSTR	FR8101ASSTR			26 dB	40 km (24.9 mi)	1
Four	Multi Mode	FT8104MSTR	FR8104MSTR	FT8104SFCR	FR8104SFCR	26 dB	8 km (5.0 mi)	1
	Single Mode	FT8104SSTR	FR8104SSTR			26 dB	40 km (24.9 mi)	1

8-Bit Video Only								
Data Channels	Mode	ST Connectors		FC Connectors		Optical Budget	Maximum Transmission Distance	Rack Slots
		Transmitter	Receiver	Transmitter	Receiver			
Mini	Multi Mode	FT8301AMST		FT8301ASFC		20 dB	2 km (1.2 mi)	
	Multi Mode Ext. Dist	FT8301AMSTRE			26 dB	6 km (3.7 mi)		
	Single Mode	FT8301ASST			28 dB	46 km (28.6 mi)		
Single	Multi Mode	FT8301AMSTR	FR8301AMSTR	FT8301ASFCR	FR8301ASFCR	20 dB	2 km (1.2 mi)	1
	Multi Mode Ext. Dist	FT8301AMSTRE	FR8301AMSTRE			26 dB	6 km (3.7 mi)	1
	Single Mode	FT8301ASSTR	FR8301ASSTR			28 dB	46 km (28.6 mi)	1
Two	Multi Mode		FR8302AMSTR-2		FR8302ASFCR-2	20 dB	2 km (1.2 mi)	1
	Multi Mode Ext. Dist		FR8302AMSTRE-2			26 dB	6 km (3.7 mi)	1
	Single Mode		FR8302ASSTR-2			28 dB	46 km (28.6 mi)	1
Four	Multi Mode	FT8304MSTR	FR8304MSTR	FT8304SFCR	FR8304SFCR	20 dB	2 km (1.2 mi)	1
	Single Mode	FT8304SSTR	FR8304SSTR			20 dB	30 km (18.6 mi)	1
Eight	Multi Mode	FT8308MSTR	FR8308MSTR	FT8308SFCR	FR8308SFCR	20 dB	1 km (0.6 mi)	2
	Single Mode	FT8308SSTR	FR8308SSTR			20 dB	30 km (18.6 mi)	2
Sixteen	Multi Mode	FT8316MSTR	FR8316MSTR	FT8316SFCR	FR8316SFCR	18 dB	1 km (0.6 mi)	4
	Single Mode	FT8316SSTR	FR8316SSTR			18 dB	26 km (16.2 mi)	4

8-Bit Video with Data								
Data Channels	Mode	ST Connectors		FC Connectors		Optical Budget	Maximum Transmission Distance	Rack Slots
		Transmitter	Receiver	Transmitter	Receiver			
Single (for Spectral)	Multi Mode	F85011MST		F85011SFC		20 dB	6 km (3.7 mi)	
	Single Mode	F85011SST			20 dB	30 km (18.6 mi)		
Single	Multi Mode	FT85011MSTR	FR85011MSTR	FT85011SFCR	FR85011SFCR	20 dB	6 km (3.7 mi)	1
	Single Mode	FT85011SSTR	FR85011SSTR			20 dB	30 km (18.6 mi)	1
Single	Multi Mode	FT85011AMSTR	FR85011AMSTR	FT85011ASFCR	FR85011ASFCR	26 dB	6 km (3.7 mi)	1
	Single Mode	FT85011ASSTR	FR85011ASSTR			28 dB	30 km (18.6 mi)	1
Four	Multi Mode	FT85041MSTR	FR85041MSTR	FT85041SFCR	FR85041SFCR	20 dB	2 km (1.2 mi)	2
	Single Mode	FT85041SSTR	FR85041SSTR			20 dB	30 km (18.6 mi)	2
Eight	Multi Mode	FT85081MSTR	FR85081MSTR	FT85081SFCR	FR85081SFCR	20 dB	1 km (0.6 mi)	3
	Single Mode	FT85081SSTR	FR85081SSTR			20 dB	30 km (18.6 mi)	3

Notes:

- 1) When using 50/125 μm multimode fiber, subtract 3 dB from the optical power budget
- 2) Maximum transmission distance is limited by fiber bandwidth
- 3) Maximum transmission distance is based on attenuation of 0.5 dB/km plus a 5 dB buffer for connector and splice losses



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