

Transmit video, audio and data with unprecedented flexibility using this custom-configurable system

The Pure Digital Fiberlink® Flex System is an all new, all digital, custom-configurable fiber optic link designed to support of video, audio, data and contact closure transmission requirements. The unique Flex System can be ordered in a wide range of permutations, with the capability to transmit any or all of the following:

- One channel of video in one or two directions
- Four independent audio channels: four channels in one direction or two in each direction
- Two data/contact closure slots: either two channels bi-directional data, two channels contact closure or one channel of each

The system is available in one and two fiber versions for use with either single mode or

multimode fiber and operates at wavelengths of 850, 1310 or 1550 nanometers.

The video channel of the Pure Digital Fiberlink Flex System features 8 MHz bandwidth and is compatible with NTSC, PAL and SECAM video standards. The four independent audio channels may be configured by the user to have either balanced or unbalanced inputs and outputs. The bi-directional data channels support RS-232/422/485 (2-wire or 4-wire) protocols or may be used to transmit contact closure signals instead.

The Pure Digital Fiberlink Flex System is available in card and box versions. Card units each fill two slots within the model 6000A Card Cage.

PURE DIGITAL FIBERLINK® FLEX SYSTEM for Video, Audio & Data



STANDARD FEATURES:

- Transmits any combination of video, audio, data and contact closure in one or both directions
- All digital processing and transmission means exceptional signal quality with no crosstalk or drifting
- Uniform, high-quality signal over entire transmission distance
- Cost competitive with AM and FM-based systems
- Multimode and single versions available
- One fiber and two fiber versions available
- Transmitter, Receiver & power supply must be purchased separately
- User's manual

VIDEO SPECIFICATIONS:

- Bandwidth (+0, -3 dB) 20 Hz to 8 MHz
(+/-0.2 dB) 50 Hz to 5 MHz
- Input/Output Impedance: 75 Ohms
- Input/Output Voltage: 1 V p-p nom., 1.3 V p-p max.

- Differential Gain: 1° typical
- Differential Phase: 1% typical
- Signal-to-Noise Ratio: 60 dB (CCIR weighted)
- Signal Connectors: BNC

AUDIO SPECIFICATIONS:

- Bandwidth (+0, -3 dB): 20 Hz to 20 kHz
- Input/Output Impedance: 600 Ohms or 24k Ohms (Balanced or Unbalanced)
- Input/Output Voltage: 0 dBm nom. +10 dBm max.
- THD: 0.1% typical
- Signal-to-Noise Ratio: 85 dB
- Signal Connectors: Removable terminal block

DATA/PTZ SPECIFICATIONS:

- Protocols Supported: RS-232, RS-422, RS-485 (2-wire or 4-wire)
- Data Rate: DC to 115 kb/s
- Signal Connectors: Removable terminal block

CONTACT CLOSURE SPECIFICATIONS:

- Input: Dry contact or TTL level
Referenced to GND
- Output: Isolated reed relay contacts
115 VAC 50/60 Hz@0.2A
or 24 VDC@1A
- Signal Connectors: Removable terminal blocks

MISCELLANEOUS SPECIFICATIONS:

- Operating Temp. Range: -35 to +75 degrees C
- Operating Power: 9-24 VAC or DC@6watts (max)

OPERATING LOSS BUDGET AND USABLE DISTANCE:

Wavelength	Mode	Loss (dB)	Distance (km)
850nm, MM	1-way or 2-way/2-fibers	0-15	0-3
1300nm, MM	1-way or 2-way/2-fibers	0-12	0-11
850/1310nm, MM	2-way/1-fiber	0-11	0-3
1310/850nm, MM	2-way/1-fiber	0-11	0-3
1310nm, SM	1-way or 2-way/2-fibers	0-28	0-70
1550nm, SM	1-way or 2-way/2-fibers	0-26	0-85
1310/1550nm, SM	2-way/1-fiber	0-25	0-60
1550/1310nm, SM	2-way/1-fiber	0-25	0-60

ORDERING INFORMATION:

Transmitter, Receiver and Transceiver units must each be ordered separately. Use the Part Number Configurator to generate a specific part number for each unit.

Card units for the Pure Digital Flex System fit within the following, rackmountable card cage:

Card Cage 6000A

In addition, each box unit requires an external power supply. Power supplies should be specified as follows:

Power Supply PDPS-1-pp
 pp (line cord on power supply):
 NA = N. America
 AU = Australia
 EU = Europe
 JP = Japan
 UK = United Kingdom

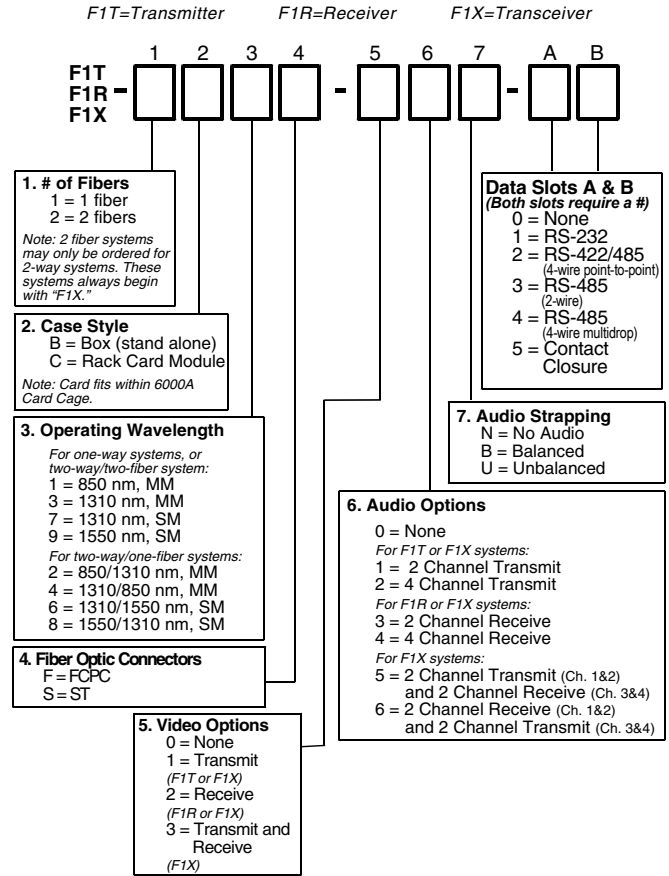
WARRANTY: Pure Digital Fiberlink Flex System is backed by a three-year warranty on parts and labor plus a 30-day satisfaction guarantee.

PART NUMBER CONFIGURATOR:

The Part Number Configurator describes how individual part numbers are generated based on the functional requirements of a system.

Please note that all Transmitters begin with F1T, Receivers with F1R, and all Transceivers with F1X. (Any system that requires signal transmission in both directions requires a transceiver unit at each end.)

For your convenience, interactive Part Number Configuration software for the Flex System can be found on our website: www.commspecial.com. Just indicate your system requirements and the software will immediately calculate respective part numbers.



VIDEO CONFERENCING INSTALLATION USING THE PURE DIGITAL FIBERLINK FLEX SYSTEM

