



**986C  
SERIES  
MULTIMODE  
SINGLEMODE**

**Eight Channel Digital Video Transmission System  
With Bi-Directional Multi-Protocol Data & Contact Closure**

**FEATURES:**

- Compatible with NTSC, (RS – 170A & RS –343A), PAL and SECAM
- 10 Bit Digital Video Transmission
- Diagnostics: Video, DC Power, Data Activity, Frame Sync, Optical Presence
- Serial Digital Transmission
- Full Color, Real Time Video Transmission

**SPECIFICATIONS:**

**Video:**

I/O Level..... 1 Vp-p (±3 dB)  
I/O Impedance.....75 Ohms  
Bandwidth..... 7 MHz  
Differential Gain..... <2 %  
Differential Phase.....<0.7 °  
SNR (Unified Weighted) .....>65 dB  
Connector.....BNC

**Data:**

Number of Channels..... 1 (Full Duplex)  
Interface ..... Selectable Multi-protocol  
Choice of: RS-485 (2 or 4 wire),  
RS-422,  
RS232,  
Manchester

Data Format.....Asynchronous, Serial  
Data Rate.....DC to 115 Kbs  
Connector.....5 Pin Screw Terminal

**Contact Closure:**

Input ..... Switch Closure to Ground  
Output..... Dry Contact  
Response Time ..... 2 mS  
Max Voltage..... 100 VDC or Peak AC  
Max Current..... 0.5 A  
Connector..... Terminal Block

**Optical (986C Series):**

Wavelength ..... 1310/1550 nm  
Loss Budget (62.5/125µ) ..... 12 dB  
Maximum Distance ..... 1 Km  
Connector.....ST

**Optical (986C-SL Series):**

Wavelength ..... 1310/1550 nm  
Loss Budget (62.5/125µ) ..... 15 dB  
Connector.....FC/PC

**Temperature (Operating):**

-40°C to +75°C, non-condensing

**Power Supply:**

1RU unit with Universal Power Input:  
100 to 240 VAC, 50 to 60 Hz 40 Watts Max.

**Size:**

1RU High x 19" Wide x 12" Deep

**MULTIMODE ORDERING INFORMATION:**

MTX-986C Video/Data/CC Tx & Data/CC Rx  
MRX-986C Video/Data/CC Rx & Data/CC Tx

**SINGLEMODE ORDERING INFORMATION:**

MTX-986C-SL - Video/Data/CC Tx & Data/CC Rx  
MRX-986C-SL - Video/Data/CC Rx & Data/CC Tx

8/10/12



The American Fibertek 986C Series transmits 8 channels of high-quality 10 bit digitized video, one channel of bi-directional multi-protocol data and a bi-directional contact closure on one multimode optical fiber using WDM technology. Designed to be completely transparent to all camera and monitor manufacturers, this system requires no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status.

Equipment consists of a 1 RU housing which contains the Video, Data, Contact Closure and the WDM passive optics.

