



**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.

