

**FOUR-CHANNEL DIGITAL VIDEO & MULTI-PROTOCOL
RS485/RS422/RS232/MANCHESTER & CONTACT
CLOSURE SYSTEM**

Features:

- ◆ Compatible with NTSC, (RS – 170A & RS –343A), PA
- ◆ and SECAM
- ◆ Diagnostics: Video, Data, OLI, DC Power and Digital Frame Sync
- ◆ Full Color Transmission
- ◆ RS485/422/232 Two Way Data
- ◆ Real Time Video Transmission
- ◆ Serial Digital Transmission

Specifications:

Video:

I/O Level1 Vp-p (±3 dB)
I/O Impedance 75 Ohms
Bandwidth7 MHz
Differential Gain2 %
Differential Phase.....0.7 °
SNR (Unified Weighted).....55 dB
Connector BNC

Data:

Number of Channels 1 (Full Duplex)
Interface....485(2 or 4 Wire)/RS422/RS232
Data FormatAsynchronous, Serial
Data Rate..... DC to 115 Kbs
Connector5 Pin Screw Terminals

Contact Closure:

InputSwitch Closure to Ground
OutputDry Contact
Response Time..... 2 mS
Max Voltage 100 VDC or Peak AC
Max Current 0.5 A
Connector.....Terminal Block

Optical

Wavelength 1310/1550 nm
Loss Budget (62/125µ)......8 dB
Maximum Distance2 Km
(Limited by Fiber Dispersion)
Connector ST

Temperature (Operating)

-40°C to +75°C, non-condensing

Power Supply:

Module : 12 VDC (AFI Part#: PS-12D)
Rackcard: SR20/2

Size:

Module-.....81/8" x 41/8" x 11/2 "
Rack Card-2 rack slots..... 6½" x 5" x 2"
Maximum Loading:....7 Cards per SR-20/2

Ordering information:

RT=Rack Card Transmitter – Video Source
RR=Rack Card Receiver –Control Site
MT=Module Card Transmitter – Video Source
RR=Module Card Receiver –Control Site

Example: MT-746C to RR-746C

5/06



The American Fibertek 746C Series transmits four channels of high-quality digitized video and one channel of multi-protocol data (RS485 (2 wire or 4 wire) or RS422 or RS232 or Manchester) and a contact closure on one multimode optical fiber at 1310 and 1550nm. 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 may be ordered as stand alone modules or rack cards that are mounted in the American Fibertek Card Cages: SR-20/2 or SR-20H/2 (redundant power supply).

