

**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 Level .....1 Vp-p (±3 dB)  
 I/O Impedance ..... 75 Ohms  
 Bandwidth .....7 MHz  
 Differential Gain ..... 2 %  
 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 Format .....Asynchronous, Serial  
 Data Rate ..... DC to 115 Kbs  
 Connector .....5 Pin Screw Terminals

**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**

Wavelength ..... 1310/1550 nm  
 Loss Budget (9/125µ)..... 15 dB  
 Connector ..... FC/PC

**Temperature (Operating)**

-40°C to +75°C, non-condensing

**Power Supply:**

Rack Card – AFI SR 20/2

**Size:**

Rack Card :  
 2 rack slots .....6½" x 5" x 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-SL to RR-746C-SL**



The American Fibertek 746C-SL 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 single mode 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-20R/1.

