

Five Channel AM Fiber Optic System

FEATURES:

- Diagnostics: Power
- Compatible with Standard CATV Modulators & Processors
- Supports Transmission of Sub-Band, Low-Band, & FM Channels
- Complete EMI Immunity
- Wide Bandwidth - 5 MHz to 120 MHz
- Supports Five Simultaneous Video Channels
- Test Points Available on Transmitter & Receiver

SPECIFICATIONS:

RF:

I/O Level	+10 dBmV
I/O Impedance	75 Ohms
Bandwidth	5 MHz to 120 MHz
Carrier to Noise (CNR)	44 dB
Connector	F

Optical:

Wavelength	1300 nm
Loss Budget (62.5/125μ)5 dB
Maximum Transmission Distance	1 Km
Connector	ST

Temperature (Operating):

-20°C to +20°C, non-condensing

Power Supply:

Module - 12 VDC (See AFI Part #: PS-12)
Rack Card - (See AFI Part #: SR-20/2)

Size:

Module - 2 $\frac{5}{8}$ " x 5 $\frac{3}{4}$ " x 1 $\frac{5}{16}$ "
Rack Card requires one rack slot - 6 $\frac{1}{2}$ " x 1" x 5"

ORDERING INFORMATION:

MT = Module Transmitter - Signal Source
MR = Module Receiver - Signal Reception
RT = Rack Card Transmitter - Signal Source
RR = Rack Card Receiver - Signal Reception

Example: MT-90 to RR-90



The American Fibertek 90 Series transmits up to five (5) high quality CATV channels (i.e. 2 - 6) on one multimode optical fiber at 1300 nm. Optimum performance is achieved when all channels are located within a single octave of bandwidth. Offering exceptional bandwidth, this system accommodates all sub-band channels, low-band channels, and FM channels (i.e. Channels T-7 to T-13, 2 - 6, & A-5 to A-1). The system is also capable of 6 MHz TV IF and satellite IF (70 MHz) transmissions. 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.

