

# **Audio Systems**

#### **FEATURES:**

- ♦ 600 Ohm Balanced or Unbalanced Audio
- Diagnostics: Power and Optical Presence
- No user or installation adjustments
- ◆ ST Optical Connector

## **SPECIFICATIONS:**

#### Audio:

I/0 Level @ 600 Ω	0 dBm (2.2 Vp-p)
I/0 Level Max	+12 dBm (8.8 Vp-p)
I/0 Impedance	600 Ω
Bandwidth	20 Hz to 20 kHz
THD	1.0 %
Signal to Noise	65 dB
Connector	Terminal Block

#### Optical:

#### Multimode

.850 nm
20dB
ST
1310 nm
21dB
ST

#### **Environmental**

Operating Temp	40°C to +75°C
Storage Temp	40°C to +85°C
Humidity0% to 959	% (non condensing)
MTBF	>100,000 hours

#### Power Supply: Included with modules

Module Transmitte	er12 VDC
Module Receiver	12 VDC
Rack Card	(See AFI Part #: SR20/2)

# Size:

Rack Card	5.0" x 6 <sup>1</sup> / <sub>2</sub> " x 1.0"
Module	$2^{5}$ / <sub>6</sub> " x $5^{3}$ / <sub>4</sub> " x $1^{3}$ / <sub>6</sub> "

## Ordering information:

#### Multimode

MT-05B-12VDC Module Transmitter
MR-05B-12VDC Module Receiver
RT-05B Rack Card Transmitter
Rack Card Receiver

#### Singlemode

MT-05B-S-12VDC Module Transmitter
MR-05B-S-12VDC Module Receiver
RT-05B-S Rack Card Transmitter
RR-05B-S Rack Card Receiver

3/13/14 JPK



The American Fibertek 05B Series transmits single direction line level audio, 600 ohms balanced or unbalanced, on one multimode or singlemode fiber. The audio is transmitted over the link using FM modulation which results in an improved signal to noise ratio and a constant audio output level over the full optical loss budget. Diagnostic indicators provide a quick visual check of system status.

Designed to be completely transparent, these links require no field adjustments at installation or additional maintenance thereafter. Equipment may be ordered as stand alone modules or rack cards that are mounted in the American Fibertek Card Cage: SR20/2 or SR-20H-2 (redundant power supplies).

