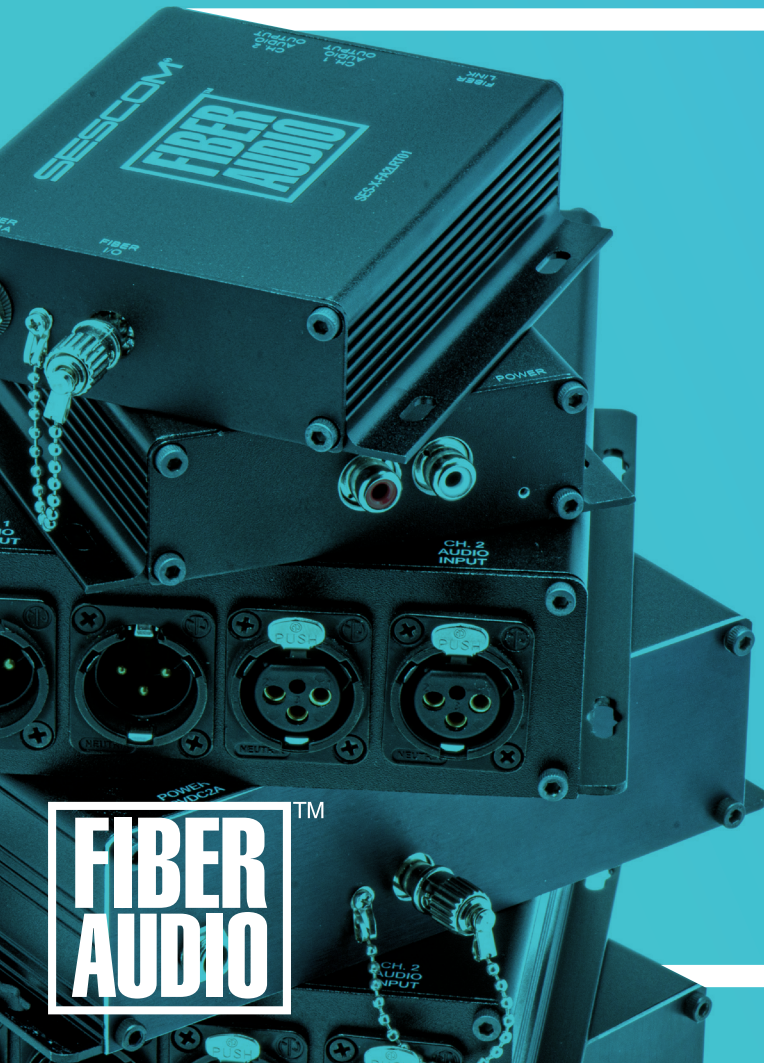


SESCOM[®]

The Audio Source.

**FIBER
AUDIO[™]**

AUDIO OVER FIBER EXTENDERS



**FIBER
AUDIO**™

SESCOM®

The Audio Source.

GO THE DISTANCE WITH SESCOM FIBER EXTENDERS

Sescom integrates fiber optic technology into audio extenders to allow you the flexibility of setting up your **audio equipment where you need it.**

No need to worry about the length of your cables since you can **transmit a signal for miles** over single mode fiber.

Sescom fiber extenders **reduce installation time and improve the signal** by eliminating ground loop noise and by suppressing electromagnetic interference (EMI) to produce high quality sound.

IMPROVE AUDIO SIGNAL TRANSMISSION BEYOND COPPER CABLE LIMITATIONS

- **Extend Signals for Miles**
- **No Degradation in Signal Quality Over Longer Distances**
- **Fiber is Immune to EMI and RFI**
- **Secure Transmission with a Higher Bandwidth**
- **Plug & Play Operation is Adjustment Free**
- **Rugged Enclosures Ensure Long Product Life**
- **Use Standard RCA, XLR & Phoenix Pluggable Audio Connectors**
- **Enable Cascaded Audio Setups**
- **Units Can be Used Stand Alone or Rack-Mounted**
- **FCC & RoHS Compliant**



PORTABLE DUAL-POWERED EXTENDER

LIVE EVENT | OUTSIDE BROADCAST | PERMANENT INSTALL



Plug & Play

2 Channel XLR Analog Audio over Fiber

Field or Studio

AC Adapter or 9V Battery Operated



Go the Distance!

Send Audio up to 12.4 Miles Over Single Mode Fiber

Flexible & Balanced

24Bit Digitally Encoded Analog Audio

PRODUCT TEST COMPARISON

In a side-by-side comparison with other audio extenders, Sescom exceeded all currently available models in both low noise performance and extended dynamic range for line level signal transmission.

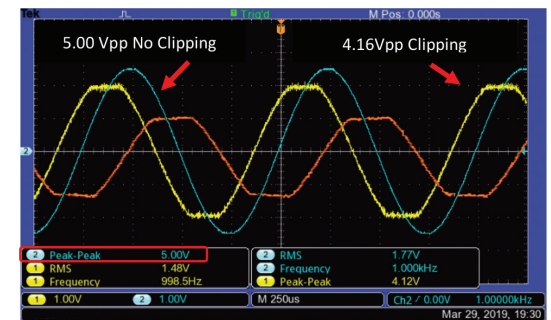
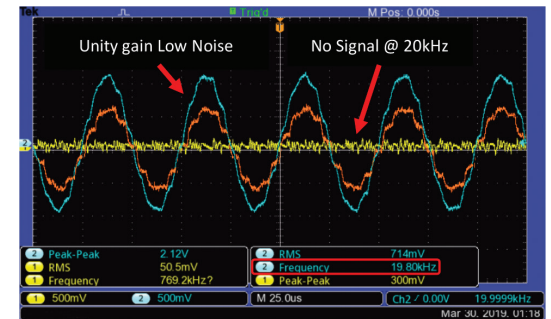
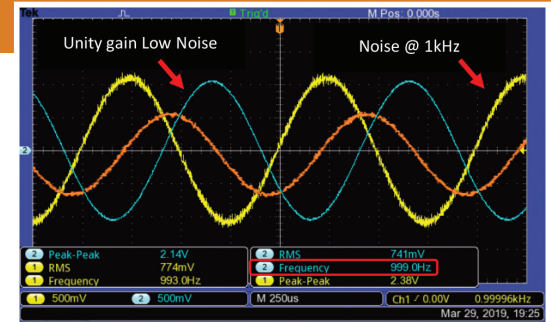
SESCOM AUDIO - 2 CHANNEL FIBER AUDIO OUTPUT - BLUE

COMPETITOR A - 2 CHANNEL FIBER AUDIO OUTPUT - YELLOW

COMPETITOR B - 2 CHANNEL FIBER AUDIO OUTPUT - ORANGE

SESCOM SPECS:

- Sample Rate = 48kHz, 24K bit rate
- Audio Gain = 0dB
- Frequency Response = 20Hz – 20kHz
- Maximum Balanced Input Signal = 18dBu
Maximum Unbalanced Input Signal = 7dBu (5Vpp)
- Total Harmonic Distortion = THD < 0.05%
- Signal to Noise Ratio = SNR >90 dB Ref. 4dBu, A Weighting
- Wavelength = 1310nm standard, options available







CAPTURE & EXTEND SIGNALS YOUR WAY!



Unidirectional
or Bi-Directional








AUDIO CONNECTOR OPTIONS:

-  RCA
-  XLR
-  Terminal Block
-  DA88

AUDIO CHANNEL COUNTS:

2 | 4 | 8 | 16

SIGNAL OPTIONS:

-  Mic Level
-  Line Level
-  Line/Mic Mixed
-  AES
-  IFB
-  Intercom
-  Dante®

SESCOM®

The Audio Source.

Unidirectional or Bi-Directional



TRANSMITTER

SINGLE MODE FIBER

FIBER CONNECTOR OPTIONS:

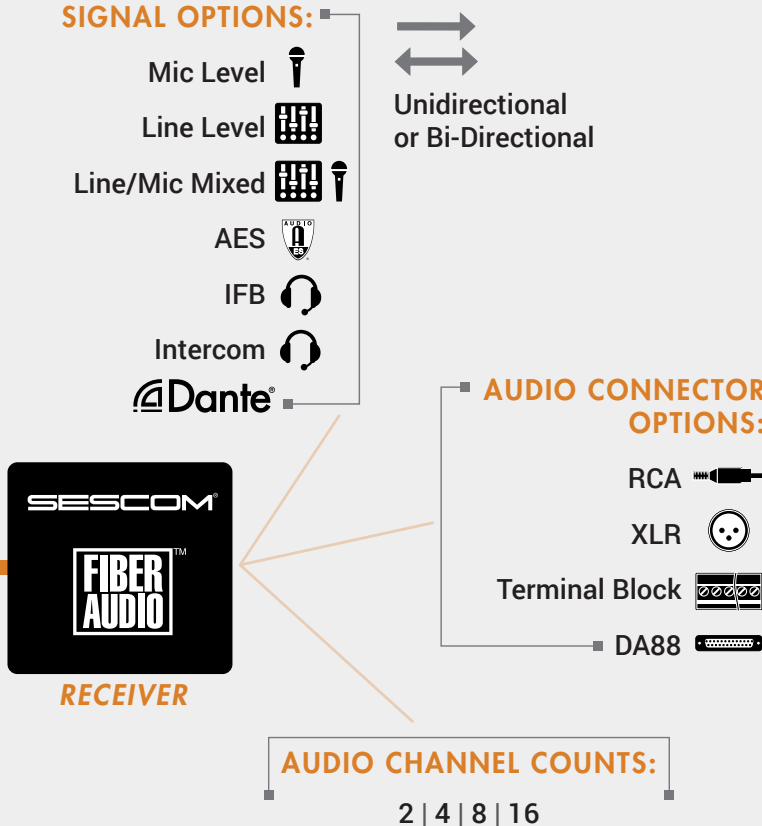
ST | LC | SC | SFP

Not all options can be configured together, please contact sales@sescom.com for any assistance in configuring your own system.

CONFIGURE YOUR SYSTEM

To generate a part number, start with the Prefix and add on the options per the chart below!

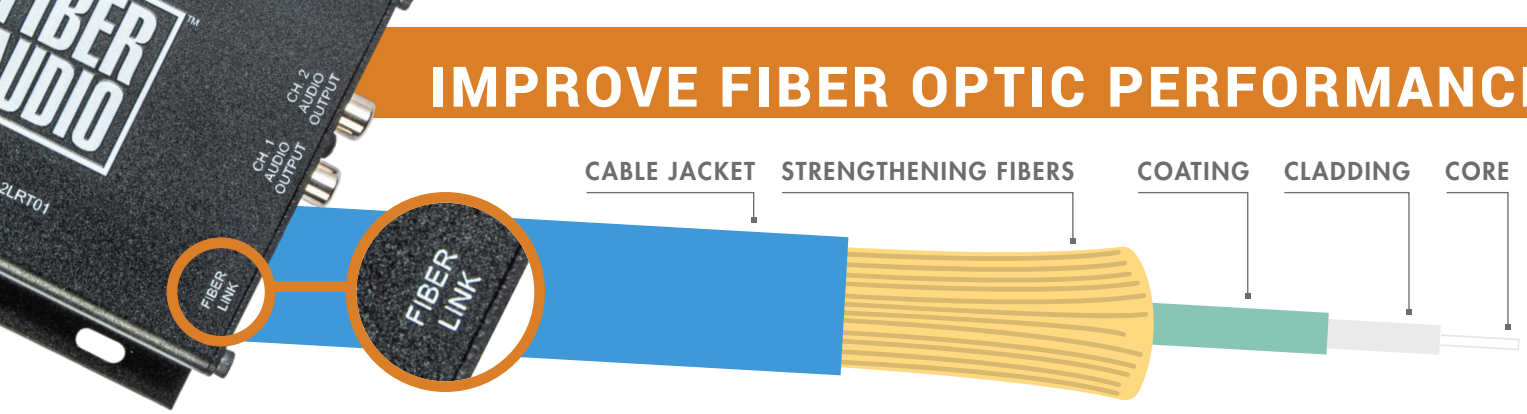
EXAMPLE: SES-X-FA4LXT



PREFIX-	SES-X-FA-
CHANNEL COUNT	2 = 2 Channel 4 = 4 Channel 8 = 8 Channel 16 = 16 Channel
SIGNAL	M = Mic Level L = Line Level D = Dante A = AES H = Line/Mic F = IFB C = Intercom
AUDIO CONNECTOR	R = RCA (unbalanced) X = XLR T = Terminal Block D = DA88
DIRECTION	(blank) = Unidirectional B = Bi-Directional
FIBER CONNECTOR	T = ST L = LC S = SC P = SFP

Stock Models Available in Multiple Configurations

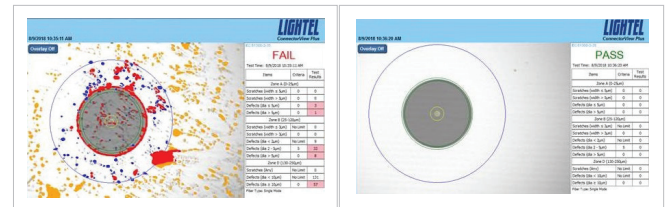
IMPROVE FIBER OPTIC PERFORMANCE



FIBER OPTIC CONNECTORS

can be contaminated by dust, oils from human hands, film residue (condensed from vapors in the air) and coatings left after water or other solvents evaporate.

FIBER END FACE BEFORE & AFTER CLEANING



INSPECTION & CLEANING TOOLS



Visual Fault Locators use a laser light to find breaks and discontinuities.



Mechanical Dry Cleaners lift dust and residues from endface.



Wet or Dry Cleaning Wipes remove contamination.

WITH INSPECTION & CLEANING

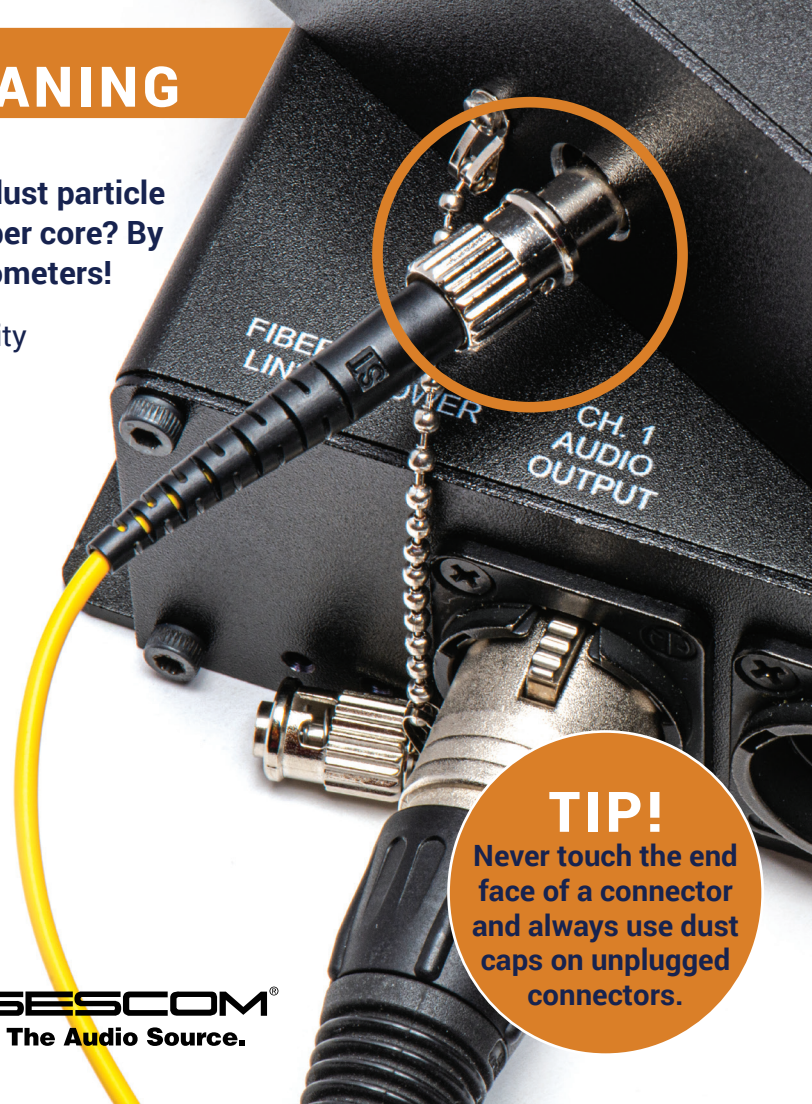
DID YOU KNOW? A 1 micrometer dust particle on a single mode core can completely block the fiber core? By comparison, a typical human hair is 50 to 75 micrometers!

Clean fiber optic components are a requirement for quality connections between fiber optic equipment.

1. The **first and most important** procedure is to inspect the fiber optic connections.
2. The **next important step** is to eliminate any dust or contamination to provide a clean environment for the fiber-optic connection.



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TIP!
Never touch the end face of a connector and always use dust caps on unplugged connectors.

SPEAK SESCOM - GLOSSARY OF TERMS

AES3	Standard for the exchange of digital audio signals between audio devices.
Balanced Audio	Three conductors carry a signal, two carry negative and positive signals, the third is used for grounding which reduces RFI. Used for longer distances.
CMRR	Common Mode Rejection Ratio is a metric used to quantify an amplifier's ability to reject common mode signals.
EMI	Electromagnetic Interference.
ST Straight Tip	Features a twist on/twist off bayonet lock used in broadcast, AV, military, and building installations.
LC Lucent Connector	Has a small form factor and features a retaining push/pull latch for densely populated racks for Ethernet and IT installations.
SC Standard Connector	Features a push on/pull off latching design used in data centers, PON, CATV, and MADI applications.
Multimode Fiber	Signal travels in many rays down the cable. Due to refraction, the rays are reflected from the cladding surface back into the core as they move through the fiber.
Noise	Any constant sound that is not the signal, a sound source to filter out or rise above.
PCM	Pulse Code Modulation is a method that digitally represents sampled analog signals.
RFI	Radio Frequency Interference, a form of EMI.
SFP Small Form-Factor Pluggable	Compact, hot-pluggable, optical transceiver module.
Signal	Electrical voltage that provides information such as an audio signal.
SNR Signal to Noise Ratio	Compares a level of signal power to a level of noise (unwanted data) power expressed in decibels (dB), higher numbers indicate better SNR.
Single Mode Fiber	Has a smaller core than multimode fiber causing the signal to travel in one ray down the cable with little light reflection resulting in the signal to travel further.
THD Total Harmonic Distortion	The distortion produced by an amplifier as measured in terms of the harmonics of the sinusoidal components of the signal that it introduces.
Unbalanced Audio	Two conductors carry a signal—one carries the positive, the other carries the negative and is the ground, which can pick up unwanted noise. Used for shorter distances.

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YOUR AUDIO SOURCE

At Sescom, problem solving is our mission for cabling and audio interface equipment.

A respected manufacturer since 1975, our products are in daily use in speaking, drama, live music, video and film production, network sports, news, and house of worship installations. We remain competitive because of our high-quality standards and advanced engineering.

Whether on the stage, on the green at a televised golf tournament, or in a TV studio, Sescom is the name trusted by seasoned audio professionals because our products are designed by audio engineers for audio engineers.

**PROUD TO BE 100%
EMPLOYEE OWNED**

VISIT THE SESCO M WEBSITE!



SESCOM[®]

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