



## FTS Series Fiber Optic Talk Sets

Fiber Optic Talk Sets are an inexpensive solution to meet your communication needs when testing multimode or single-mode fiber optic cables. Designed for voice communication over spare fibers, they provide full duplex, hands-free operation. Ease of use and compact size allow the operators to focus on the task at hand, rather than operating the talk set. Two talk set models are available, the FTS 1 for communication on single-mode or multimode fiber and the FTS 2 for long-range single-mode applications. The FTS 2 model includes a multiparty communication feature, which provides the connection of two talk sets at a common site to extend the range or to include three or more persons in the conversation.



### FTS-20C Clip-on Coupler

A clip-on coupler is available for bare fiber access where terminated ends are not available. The FTS 20C allows bi-directional communication from a center point on the fiber link or from an unterminated end. When used with a fiber talk set – such as the FTS2 – a user can access the intended talk fiber at a mid-point across the span, usually at the splice enclosure. The FTS-20C can also be used in conjunction with a Laser Source and Tone Detector to inject or detect 2 kHz test tones. It works at 1310, 1550, or 1625 nm. Coupling efficiency is approximately 18 dB.

### Features

- Single fiber, full duplex
- Multimode and single-mode models
- Field portable, hands-free operation
- Automatic connection
- Multiparty communication
- Digital technology
- Call-back feature/ringing (FTS 2)
- Communicates with T500B talk option (FTS 2)

### Ordering Information

Model	Includes
FTS 1 FTS 2	Protective rubber boots, batteries, headsets, manual, and carry case.

Fiber optic talk sets are purchased in pairs. Two units are required for communication.



### Specifications

Model	FTS 1-2	FTS 2-1310	FTS 2-1550
<b>Optical Specifications</b>			
Wavelength	1300 nm	1300 nm	1550 nm
Dynamic Range MM/SM	12 dB/ 20 dB	45 dB	45 dB
Distance Range (km)			
Typical 62.5 or 50 $\mu$ m MM fiber <sup>1</sup>	>10	N/A	N/A
Typical 1310 nm-optimized SM fiber <sup>2</sup>	50	113	150
Typical 1550 nm-optimized SM fiber <sup>3</sup>	40	90	180
Fiber Type	MM/SM	SM	
Connector	FC, SC, or ST	FC, SC, or ST	
Emitter Type	LED	Laser	
Emitter Classification	Class 1 (IEC 60825 - 1)	Class 1 (FDA 21 CFR 1040.10 and 1040.11, and IEC 60825-1)	
<b>General Specifications</b>			
Power	9V alkaline	4 AA alkaline or AC adapter	
Weight in Use	0.56 lb (.25 kg)	1.16 lb (.52 kg)	
Size (H x W x D)	6.6 x 3.1 x 1.5 in (16.8 x 7.9 x 3.8 cm)	7.3 x 4.4 x 1.8 in (18.5 x 11.1 x 4.6 cm)	
Operating Temperature	0° to +50° C, RH 0 to 90% non-condensing		
Storage Temperature	-20° to +50° C, RH 0 to 90% non-condensing		

Notes:

1 2.8 dB/km @ 850 nm, 0.6 dB/km @ 1300 nm.

2 0.4 dB/km @ 1310 nm, 0.3 dB/km @ 1550 nm.

3 0.5 dB/km @ 1310 nm, 0.25 dB/km @ 1550 nm.