

NOYES® **FTS Series Fiber Optic Talk Sets**



FTS 1

FTS 2

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 multi-party 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

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 the center point on a fiber link or from the unterminated end. When used with a fiber talk set, such as the FTS2, the user can access the intended talk fiber at the mid-point across the span, usually at the splice enclosure. The FTS-20C can also be used in conjunction with a laser source or a 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
- Multi-party communication
- Digital technology
- Call-back feature/ringing (FTS 2 model)

Applications

- Voice communication over optical fiber links
- Testing schedule not impacted by cell phone coverage
- Military and other secure locations

NOYES® FTS Series Fiber Optic Talk Sets

Specifications ^a

MODEL	FTS 1-2	FTS 2-1310	FTS 2-1550
OPTICAL			
Wavelength	1300 nm	1310 nm	1550 nm
Dynamic Range MM/SM	12 dB / 17 dB	45 dB	45 dB
Distance Range (km) Typical 62.5 or 50 μm MM fiber ^b Typical 1310 nm optimized SM fiber ^c Typical 1550 nm optimized SM fiber ^d	>10 50 40	N/A 113 90	N/A 150 180
Fiber Type	MM/SM	SM	
Connector	FC, SC, ST	FC, SC, ST	
Emitter Type	LED	Lasers	
Emitter Classification	Class I FDA 21 CFR 1040.10 and 1040.11, IEC 60825-1: 2007-03		
GENERAL			
Power	9V alkaline	4 AA alkaline or AC adapter	
Weight in Use	0.25 kg (0.56 lb)	0.52 kg (1.16 lb)	
Size (H x W x D)	16.8 x 7.9 x 3.8 cm (6.6 x 3.1 x 1.5 in)	18.5 x 11.1 x 4.6 cm (7.3 x 4.4 x 1.8 in)	
Operating Temperature	0°C to +50°C, RH 0 to 90 % non-condensing		
Storage Temperature	-20°C to +50°C, RH 0 to 90 % non-condensing		

Notes:

- a. All specifications valid at 25°C unless otherwise specified.
- b. 2.8 dB/km @ 850 nm, 0.6 dB/km @ 1300 nm.
- c. 0.4 dB/km @ 1310 nm, 0.3 dB/km @ 1550 nm.
- d. 0.5 dB/km @ 1310 nm, 0.25 dB/km @ 1550 nm.

Ordering Information

INCLUDES	AFL NO.
Protective rubber boots, batteries, headsets, manual and carry case	FTS 1 FTS 2

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

Calibration Plans

AFL recommends annual calibrations on NOYES Test and Inspection products. Prepaid Cal plans offer two annual calibrations at a discounted price, a convenient calibration expiration email service, express calibration services and access to the NOYES product knowledge base. Cal Plus plans offer the same services as the Cal plans with the addition of a two year extended warranty (three years total coverage).

MODEL	2 YR CAL PLAN	2 YR CAL PLUS PLAN
	AFL NO.	AFL NO.
FTS1 (pair)	CAL2-00-FTS1	CAL2-01-FTS1
FTS2 (pair)	CAL2-00-FTS2	CAL2-01-FTS2



NOYES International Sales and Service Contact Information

Available at www.AFLglobal.com/NOYES/Contacts