

Corning Cable Systems smallTALK® Fiber Communicator

1. General

1.1 This procedure describes the fiber communicator models smallTALK-SM and smallTALK, which will be referred to in this procedure as smallTALK (Figure 1).

1.2 The smallTALK allows optical communication between two or more locations. Suited for fiber installation, testing, maintenance and emergency restoration where establishing communications is of a primary importance.

1.3 The smallTALK is an easy to use, compact device that operates over multimode fiber (and single-mode fiber in the case of the smallTALK-SM) via a baseband signal. Therefore, neither matched pairs nor hardwire-type conferencing is necessary.

1.4 If this document is reissued, a summary of changes will appear in this paragraph.

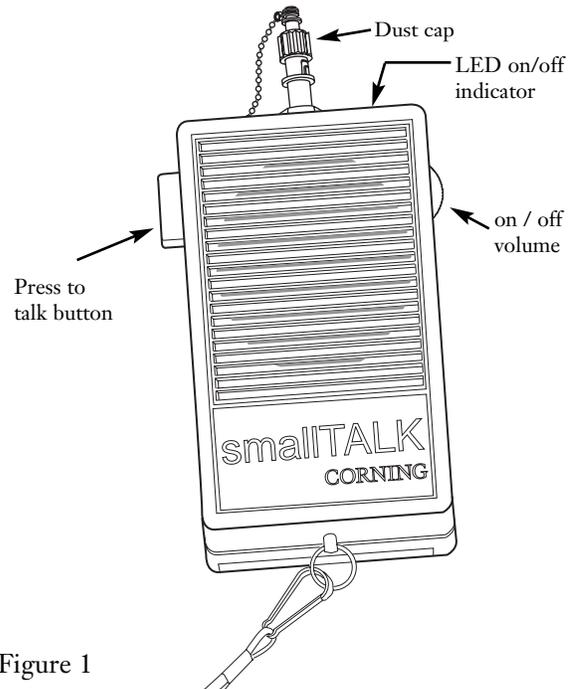


Figure 1

2. Precautions

2.1 Operating Environment Precautions

 **DANGER:** Do not operate this device in an explosive atmosphere – it has not been certified for such environments. During operation, this unit could generate an electric spark which could cause an explosion in the presence of flammable vapors.

2.2 LED Precautions

 **WARNING:** The smallTALK units utilize a LED source. Extreme care should be practiced when working with any optical equipment or devices. Though remote, permanent damage to your eyes could occur. Avoid looking directly at the ends of optical fibers, connectors or sources.

3. Functional Description

3.1 The smallTALK is powered by a single 9V alkaline battery that will typically provide 15 hours of operation before replacement of the battery will be required.

3.2 The output ports are fixed ST®-connector compatible adapters. Always clean the interfacing connector with alcohol before insertion into the optical port of the smallTALK and when not in use, keep the dust cap in place.

3.3 The knurled wheel knob on the right side of the smallTALK turns the unit off and on and adjusts the volume of the reception on your smallTALK. When the smallTALK is on, a red top panel LED is also on.

3.4 The push button switch on the left side of the smallTALK is depressed when you need to speak, releasing it when you are finished with your statement.

3.5 With the two units connected to the same fiber you can then talk, but only half duplex. Thus, both units can be used to talk, but only one unit at a time.

3.6 Use a multimode jumper to connect the smallTALK unit with the system fiber. With the smallTALK-SM version, use a single-mode jumper.

4. Applications

4.1 Typical applications include testing, maintenance, installations, and restorations of singlemode and or multimode fiber applications.

5. Maintenance

5.1 The smallTALK is virtually maintenance free. The only real maintenance involves keeping the optical port clean, along with the optical connector/ adapter you are inserting into the optical port of the smallTALK. It is important to keep the dust cap in place when the smallTALK is not being used.

5.2 There are no internal adjustments to be made on the smallTALK, so any attempt to repair the smallTALK in the field is not recommended and will void the warranty. For repair and return instructions please contact Corning Cable Systems.

6. Specifications

	smallTALK-SM	smallTALK
Operating Wavelength	1300nm	850nm
Optical Transmission	Single fiber, half duplex	Single fiber, half duplex
Dynamic Range (min.)	30dB over Singlemode	25dB over Multimode
Battery life	~15 hours (9V alkaline)	~15 hours (9V alkaline)
Fiber Types	Singlemode or Multimode	Multimode
Optical Connector	ST (fixed)	ST (fixed)
Physical	4.2 in. (H) x 2.8in (W) x 1.1 in(D)	
Operating temperature	-20C to 55C	
Weight	6 oz. each	

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7. Warranty

7.1 This product is warranted against defective material and workmanship for a period of one (1) year from the date of shipment to the original customer. Within the warranty period, any products that are found to be defective will at the option of Corning Cable Systems, be repaired or replaced.

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