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http://web.archive.org/web/19991104001303/http://www.indtech.com/120.htm

FiberFone Fiber Optic Talk Sets

Display FiberFone Graphics



The Butt-In set for Fiber Optic Cable. FiberFone Fiber Optic Talk Sets are portable field telephones that combine the high quality of fiber optic communication with the durability needed for field operation. FiberFones are used typically by cable technicians during the installation, maintenance and restoration of fiber optic cables to provide site-to-site communication. Using one spare single mode or multimode fiber, technicians can quickly set up a reliable communications link between two different work locations or a conferencing link among several work locations. Lightweight and easy to use yet extremely rugged, the FiberFone passes a drop test, a water spray test and is internally sealed for high humidity operation.

- **Engineered for the Real World-** Unlike most fiber optic talk sets, FiberFones are designed to perform even in adverse field conditions.
- **Long Haul or Local Loop-** For short range applications, the model 120 provides 20dB of optical range (60-80km) at 1300nm. For longer ranges select either the model 122 (40dB at 1300nm) or model 123 (40dB at 1550nm). Range for the model 122 is 120km-150km and the model 123 provides a range of 170km-190km.
- **Full Duplex on One Fiber-** There is only one fiber to connect, no "push-to-talk" or VOX controls, and no need for "A" and "B" matching sets
- **Excellent Audio Quality-** Digital signal processing provides excellent audio quality independent of the distance between the units.
- **Conference Multiple Work Locations-** For many applications it is desirable to connect three or more locations to the same fiber. Restoration jobs, for example, require communication from both ends of the fiber to the cut location in the middle. Fiberfones employ electronic coupling which is superior to optical coupling because there is no loss in the coupler to reduce the range of communication. An inexpensive Conferencing Adapter connects two FiberFones at the middle location. These units act as repeaters so everyone can talk and listen at the same time. Since there is no loss with this method, with 40dB units set up in a three way conference, the two end units can be up to 80dB apart. The range and number of connected parties can be extended indefinitely simply by adding "middle locations".
- **Power Options-** FiberFones are shipped with standard D-cell batteries which provide up to 100 hours of operation and eliminate the problems associated with rechargeables. Or, choose the optional AC Power Supply which plugs into any 120VAC (220VAC available) wall outlet or portable generator. FiberFones can be operated from any 7 to 18 VDC power source, including vehicle batteries.
- **Headset Options-** A telephone style handset with a modular plug coil cord is standard. For hands-free operation, an optional headset is available.
- **Simple Operation-** If you can operate a telephone, you can use a FiberFone.
- **Built-in Fiber ID Tone-** Press the ID button and FiberFone sends a 2kHz identification "tone" over the connected fiber which is compatible with most

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fiber identifiers.
- **Fiber Loss Measurement Capability-** Press the SOURCE button and a stabilized CW (continuous wave) signal is sent on the connected fiber that is suitable for measuring fiber loss with any power meter capable of measuring 1300nm or 1500nm signals. The source is stabilized for minimum short term variations.

Applications

- Long haul systems
- Distribution networks
- Local Area Networks
- Fiber to the home (FTTH) projects
- Military communications
- Secure intercoms
- Communications in high RF noise areas
- Private networks
- Fiber identification
- Fiber loss measurements
- Cut cable restorations

Specifications

- Size (single unit): 10.8 x 5 x 5.7 inches (140 x 278 x 120mm)
- Weight (single unit including batteries): 5.5 lbs (2.5kg)
- Shipping Weight:
- Single unit: 6lbs (2.7kg) per unit
- Talk set kit: 24 lbs (11kg)

Ordering Information

Single FiberFone Units

- FiberFone Fiber Optic Talk Set, Model 120 (20dB/1300nm)
- FiberFone Fiber Optic Talk Set, Model 122 (40dB/1300nm)
- FiberFone Fiber Optic Talk Set, Model 123 (40dB/1550nm)

Each of the above includes one FiberFone Talk Set (at least two are required), batteries, operating manual, handset and accessory pouch.

***** FiberFone Fiber Optic Talk Set, Model 122 and Model 123 are also available with ST connectors**

FiberFone Kits

- FiberFone Talk Set Kit, Model 124 (20dB/1300nm
- FiberFone Talk Set Kit, Model 125 (40dB/1300nm)
- FiberFone Talk Set Kit, Model 126 (40dB/1550nm)

Each Kit includes:

- two FiberFones (Model 120, 122 or 123)
- two Model 319 headsets,
- two Model 315FC Fiber Optic Jumper Assemblies
- two Model 323 AC Power Supplies
- one Model 320 Conferencing Adapter
- one Kit Carrying Case

Kit Carrying Case A sturdy, hard shell carrying case holds two FiberFones and all Kit components.

Fiber Optic Jumper Assembly, Model 315FC A connectorized jumper assembly with FC-PC connectors on both ends. (Contact our factory for available connector combinations and lengths).

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FiberFone Headset, Model 319 A fully adjustable headset that plugs into the FiberFone's handset jack for hands-free operation.

FiberFone Conferencing Adapter, Model 320 One adapter allows three work locations to communicate on one fiber. Additional locations require additional adapters.

FiberFone Power Supply, Model 323 A plug-in power supply for optional 120 VAC operation. 230 VAC version also available.

Optional Accessories

- **Bare Fiber Adapter, Model 314FC** FC-PC adapter for connecting a FiberFone to a bare 125um fiber. This adapter is not included in the Talk Set Kits.
- **Fiber Clip On Adapter, Model 333** (FC-PC connector)

Fiber Clip On Adapter, Model 333ST (ST connector) Allows FiberFone connection to a bare fiber when the end of the fiber is unavailable. Shipped complete with carrying case and index matching gel.

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