

Fiber Optic Transmission Kits with Fiber and UTP Connections

The amount and content of elevator communications (high-resolution video surveillance, telephony, control signals, audio, etc.) is ever increasing. Fiber optic cable is an ideal answer for these needs.

Fiber optic transmission kits convert electronic signals from cameras and the like into optical signals and back to electronic signals at the other end. Draka offers three solutions for electro-optical signal tx/rx:

Signamax tx/rx units accept 10/100BaseT electronic signals through RJ-45 jacks and convert them for duplex (two-way) optical transmission over either 62.5µm or 50µm multimode fiber and ST and SC connectors. The system consists of two units, power supplies and patchcords.



American Fibertek M100C units are compact video converters that transmit one-way from cab to security center. They can operate over either 62.5µm or 50 µm multimode fiber with any camera with a coaxial output. ST and SC versions are available. The system consists of a tx/rx pair with power units and patchcords.



Fiberlink 7220/7221 units are used for one-way HD video and audio transmission. The signal is the high resolution HD RGB up to

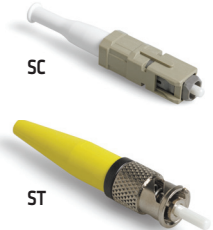


WXGA standard over 62.5µm or 50µm fiber. The kit comes with both the tx and rx boxes.

Notes about fiber optic connections

Optical fiber types are multimode and single mode. Multimode, in either the 50µm or 62.5µm sizes, is most commonly used and will work well for distances of up to 2000 meters. It is also easier to work with than single mode.

The most common fiber optic connectors are SC and ST. Patchcords come with the specified connector already installed. You then splice the bare end of the patchcord to the fiber in the traveling cable. All splices must be tested after splicing. There are many ways to splice and test fiber - contact Draka for your options.



Connectors meet the electronic optics in an adapter. This area should be carefully cleaned prior to connection. A good fiber cleaning kit is essential. Contact Draka for options.

Important note about Cat5 and Cat6 UTP

Draka is often asked why we do not put Cat5, 5e or 6 cables in our traveling cable. Current NEC standards do not permit the use of copper conductors smaller than 20 AWG in traveling cable. Almost all UTP data cables are 24 AWG.

Ethernet 10/100BaseT to full duplex (two-way) fiber transmission

Part Number	Description
F10651100KIT62ST	Two box-style units with RJ-45 electronic and ST optical input/output for Ethernet to 62.5µm 100BaseFX conversion - includes two Cat6 five foot jumpers and two three meter ST patchcords
F1065110KIT62SC	As above but with 62.5µm SC input/output and two three meter SC patchcords
F10651100KIT50ST	Two box-style units with RJ-45 electronic and ST optical input/output for Ethernet to 50µm 100BaseFX conversion - includes two Cat6 five foot jumpers and two three meter ST patchcords
F1065110KIT50SC	As above but with 50µm SC input/output and two three meter SC patchcords

FM video to simplex (one-way) fiber transmission

Part Number	Description
F1-MTRM100KIT62	Tx/Rx pair of modules for coax to 62.5µm fiber conversion - includes power supplies and two 62.5µm ST patchcords
F1-MTRM100KIT50	As above but with 50µm input/output and two 50µm ST patchcords

HD video to simplex (one-way) fiber transmission

Part Number	Description
F17220-B75KIT-62	Tx/Rx pair of box-style units with VGA video and ST optical input/output - includes power supplies and two 62.5µm ST patchcords
F17220-B75KIT-50	As above but with 50µm input/output and two 50µm ST patchcords

NOTE: Single mode versions of all of the above are available on request.