



RAINBOW FISH

## Frequently Asked Questions

August 1, 2011

### Rainbow Fish Fiber Optic HDMI Cable

Q: What is the top benefit of Rainbow Fish?

A: Lossless HDMI up to 1000 feet.

Q: What is the shortest length you offer?

A: 35 feet for Pro Series, 20 feet for Home Series.

Q: What is the difference between Pro and Home Series?

A: Pro Series uses a more durable black in-wall rated cable jacket and connector housing.

Home Series uses a white or clear cable jacket suitable for in-room.

Q: Is there any performance spec difference between Pro and Home?

A: No, both meet the same distance, bandwidth and HDMI support specs.

Q: What version of HDMI is Rainbow Fish?

A: HDMI High Speed.

Q: What is the bandwidth?

A: 16Gbps.

Q: Does it support 3D?

A: Yes.

Q: How does it work?

A: Rainbow Fish proprietary electronics convert the HDMI electrical signal to an optical signal and send the optical light through the fiber. The process is reversed at the display connection.

Q: Can I splice the fiber?

A: No. It is a custom-designed fiber optic cable not suitable for splicing.

Q: Is it multi-mode fiber?

A: Yes.

Q: What is the bend radius of the fiber without risk of damage?

A: 3mm – approximately the equivalent of wrapping the fiber around a pencil.



HDMI  
HIGH SPEED



HDMI  
HIGH SPEED



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Sleek cable solution for HDMI connections

Q: Is the fiber is bent more than this such as 90° will it break?

A: Yes.

Q: Can it be repaired?

A: Only by Rainbow Fish.

Q: How do I pull it through hidden areas?

A: You should only apply pulling tension or pressure to the fiber cable jacket and not on the connector.

**Note:** the fiber cable is designed to withstand 60 pounds of pulling tension; this is accomplished via internal "strength members" which line the inside of the fiber cable jacket for this very reason.

Q: How do I pull Rainbow Fish from its receiving (RX) connector which has the integrated USB power cord?

A: We recommend using a Rainbow Fish pull-ring which is available from Rainbow Fish. The fiber and USB cable are looped around the ring, secured and now a pull-loop is prepared and all pulling tension is only applied to the cable and not the connector.

Q: What size conduit or pipe is required to fit Rainbow Fish?

A: 1" or 2.54cm minimum.

Q: How durable is the fiber for running under carpet?

A: There is no spec for this use of fiber optic cable.

Q: Should I install Rainbow Fish along a baseboard or skirting board?

A: Yes; you can use Home Series in this instance if you wish for white or clear cable "dis-appearance".

Q: Can I insert a right-angle HDMI adapter behind the TV if space is tight?

A: Yes; this very short distance will not compromise the Rainbow Fish performance.

Q: What are Rainbow Fish future plans?

A: To make a range of practical, useful fiber optic connectivity products  
To create installer accessories and tools to help make pulling Rainbow Fish even easier. We welcome your suggestions on this.