

# FPC150A075

## HDTV CABLE CLONE

- Suitable for 1.5 Gb/s or 540 Mb/s operation
- Simulates up to 150 metres of Belden 8281
- Known, accurate loss vs frequency characteristic
- Resolution down to 10 metres of Belden 8281
- Convenient, patchable cable lengths
- Robust construction
- Cross reference to other cables
- >15 dB return loss to 750 MHz
- Shielded metal case size
- 75 ohm Female BNC's

In bit-serial digital coaxial interfaces for HDTV component signal data rates of 1.5 Gb/s are common. It is known that a signal adhering to SMPTE 292M will ensure correct operation of automatic cable equalisers provided a coaxial cable with a 1/f frequency response from 1 MHz to the clock frequency is used.

The Faraday HDTV cable clone has a known, accurate loss vs frequency characteristic against cable over the significant frequency spectrum of the serial digital signal. It can therefore be used as a more convenient substitute for actual cable when installing or testing HDTV serial digital equipment to ensure sufficient margin (head room) is available, or to establish the maximum length of cable over which the serial digital signal will remain usable. The individual cable lengths may be patched together to simulate a maximum length of 150 metres. The use of switches has been avoided as they introduce unacceptable errors into the simulation.

<i>Order code</i>	FPC150A075	
<i>Impedance</i>	75 ohms	
<i>Cable type</i>	Belden 8281 (cross reference for BBC PSF 1/2M, 1/3M and RG59)	
<i>Cable lengths simulated</i>	10m + 20m + 40m + 80m	
<i>Amplitude variation wrt 8281</i>	300 kHz to 750 MHz	300 kHz to 1.5 GHz
<i>10m section</i>	< 1 dB	< 2 dB
<i>20m section</i>	< 1 dB	< 2 dB
<i>40m section</i>	< 1 dB	< 4 dB
<i>80m section</i>	< 1 dB	< 4 dB
<i>Total</i>	< 4 dB	< 10 dB
<i>Return loss to 750 MHz</i>	> 15 dB	

Other cable types and lengths may be simulated, please contact Faraday for availability.

# PACKAGE DETAIL

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