

HDTV CABLE CLONE

Fixed Length Clones and Kit

- More convenient than cable
- Shielded Barrel construction
- Small, light, accurate
- Four lengths in a case
- Cross reference to other cables
- Standard lengths of 10, 20, 40,50 ,60, 70 and 80 m
- Suitable for 1.5 Gb/s or 540 Mb/s operation
- Known, accurate loss vs frequency response
- Male to Female BNC connectors

The Faraday fixed length clone provides the most convenient method of simulating the effect of cable on HDTV serial digital interfaces without compromising accuracy. Each cable length is realised in an individual barrel, with a male to female BNC connector transition. This allows connection of sections to simulate greater lengths of cable. The use of switches has been avoided as they introduce unacceptable errors into the simulation.

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 $1/\sqrt{f}$ 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.

Order Code	Cable length	Amplitude variation wrt 8281 to 750 MHz	Amplitude variation wrt 8281 to 1.5 GHz
FFC010A075	10m	< 1 dB	< 1 dB
FFC020A075	20m	< 1 dB	< 2 dB
FFC040A075	40m	< 1 dB	< 3 dB
FFC050A075	50m	< 1 dB	< 3 dB
FFC060A075	60m	< 1 dB	< 3 dB
FFC070A075	70m	< 1 dB	< 3 dB
FFC080A075	80m	< 1 dB	< 3 dB

Common specifications:

<i>Impedance:</i>	75 ohms
<i>Cable type:</i>	Belden 8281 (cross reference for BBC PSF 1/2M, 1/3M and RG59)
<i>Return loss:</i>	> 15 dB to 750 MHz
<i>Package size:</i>	DR00193A

Any four of the above will be supplied in a convenient case. Please specify lengths required when ordering. Other cable types and lengths may be simulated, please contact Faraday for availability.

PACKAGE DETAIL

