

**EQUIPMENT REQUIRED BUT NOT SUPPLIED (cont'd)**

using the internally generated 640 MHz signal, compared to the 640 MHz signal being supplied by the HP 8662A Synthesized Signal Generator.

The following table lists the coaxial cables required to connect the Carrier Noise Test Set to the HP 8662A or 8663A Synthesized Signal Generators. Also listed are the cables necessary to connect the Carrier Noise Test Set to a spectrum analyzer.

HP Part No.	Description	Use on Carrier Noise Test Set
11170B	BNC(M)-BNC(M) (24 inches)	5 to 1280 MHz INPUT
11170C	BNC(M)-BNC(M) (48 inches)	640 MHz IN FREQ-CONT DC-FM FREQ-CONT X-OSC NOISE SPECTRUM <10 MHz OUTPUT <1 MHz OUTPUT

Table 1-1. Specifications (1 of 2)

Electrical Characteristics	Performance Limits	Conditions
<b>TEST SIGNAL</b> Frequency Range <sup>1</sup>  Band Center Frequencies	10 MHz to 18 GHz  1.92 GHz 4.48 GHz 7.04 GHz 9.60 GHz 12.16 GHz 14.72 GHz 17.28 GHz	External low-pass filtering may be required for test signals <20 MHz and ±20 MHz around band centers
<b>IF OUTPUT</b> Bandwidth Level	5 MHz to 1280 MHz +7 dBm Minimum	
<b>AM NOISE DETECTION</b> (Option 130) Frequency Range Input level AM Noise Floor Offset from Carrier (Hz) 1k 10k 100k 1M	10 MHz to 18 GHz 0 dBm to +18 dBm  AM Noise (dBc/Hz) -138 -145 -155 -160	At +10 dBm input level
<b>RESIDUAL NOISE</b> Offset From Carrier(Hz) 10 100 1k 10k 100k 1M	dBc/Hz -115 -126 -135 -142 -151 -156	With a <1.28 GHz input signal

<sup>1</sup>In eight (8) bands, excluding ±5 MHz around band center frequencies.

Table 1-1. Specifications (2 of 2)

Electrical Characteristics	Performance Limits	Conditions
<b>RESIDUAL NOISE (cont'd)</b>  Offset From Carrier (Hz) 10 100 1k 10k 100k 1M	dBc/Hz -90 -105 -115 -127 -137 -142	With a 10 GHz input signal
<b>GENERAL</b>  Line Voltage  Line Frequency  Power Dissipation Temperature: Operating  Weight: Net  Dimensions <sup>2</sup> : Height Width Depth  Remote Operation (HP-IB) <sup>3</sup>  IEEE STD 488-1978 Compati- bility Code: SH1, AH1, T5,TE0, L3, LE0, SR1, RL1,PP1, DC1, DT0,C0.	100,120,220 or 240V (+5%,-10%)  48 to 66 Hz  75 V·A maximum  0 to +55°C  10.4 kg (23 lb.)  99 mm (3.9 in.) 425 mm (16.8 in.) 551 mm (21.7 in.)	
<b>ELECTROMAGNETIC COMPATIBILITY</b> Electromagnetic Interference	Conducted and radiated interference is within the requirements of CE03 and RE02 as called out in MIL-STD 461, and within the requirements of VDE 0871 and CISPR Publication 11.	
<sup>2</sup> For ordering cabinet accessories the module sizes are 3-1/2H, 1MW (module width), 20D.  <sup>3</sup> The Hewlett-Packard Interface Bus (HP-IB) is Hewlett-Packard's implementation of IEEE STD 488-1978, "Digital Interface for Programmable Instrumentation." All front panel functions with the exception of the line switch are HP-IB programmable.		