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## Environmental Requirements

**Table 2-1 Environmental Requirements**

Parameter	Limits
Operating temperature	+20 °C to +26 °C (+68 °F to +79 °F)
Storage temperature	−40 °C to +75 °C (−40 °F to +167 °F)
Altitude	
Operation	< 4,500 meters (≈15,000 feet)
Storage	< 4,500 meters (≈15,000 feet)
Relative humidity	Always non-condensing
Operation	Up to 80% at 30°C
Storage	Up to 95% at 40°C

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## Electrical Specifications

**Table 2-2 Electrical Specifications**

Cable	SWR	Return Loss (dB)	Insertion Loss (dB) <sup>a</sup>	Frequency Range (GHz)
85134C	≤0.385	≥15.9	≤0.46 √f + 0.3	DC to 26.5
85134D			≤0.31 √f + 0.2	
85134G				

a. f = frequency in GHz.

## Supplemental Characteristics

Table 2-3 lists supplemental performance characteristics. These are not specifications, but are intended to provide additional information useful to your application. Supplemental characteristics are typical (but not warranted) performance parameters.

**Table 2-3 Supplemental Characteristics (1 of 3)**

Cable	Cable Length		Approximate Electrical Length		Magnitude and Phase Stability With a 90° Bend <sup>a,b</sup>	Random Use Magnitude and Phase Stability <sup>c</sup>	Minimum Recommended Bend Radius	
	cm	in	m	nsec			cm	in
85134/5C	81	32	1.150	3.8361	<0.06 dB Change	<0.15 dB Change	10.2	4
85134/5D	53	21	0.737	2.4584	<0.18° (f) + 0.8°	<0.08° (f) + 0.8°		
85134G								

a. (f) = frequency in GHz.

b. With a 90°, four-inch bend radius.

c. After three 90°, four-inch bend radius/straighten cycles.

**Table 2-3 Supplemental Characteristics (2 of 3)**

Cable Set	Number of Cables	Test Set End Connector Type	DUT End Connector Type
85134C	1	NMD-2.4 mm -f- Slotted	PSC-3.5 mm -f- Slotless
85134D	2		NMD-3.5 mm -m- and PSC-3.5 mm -f- Slotless
85134G	1		NMD-3.5 mm -m-

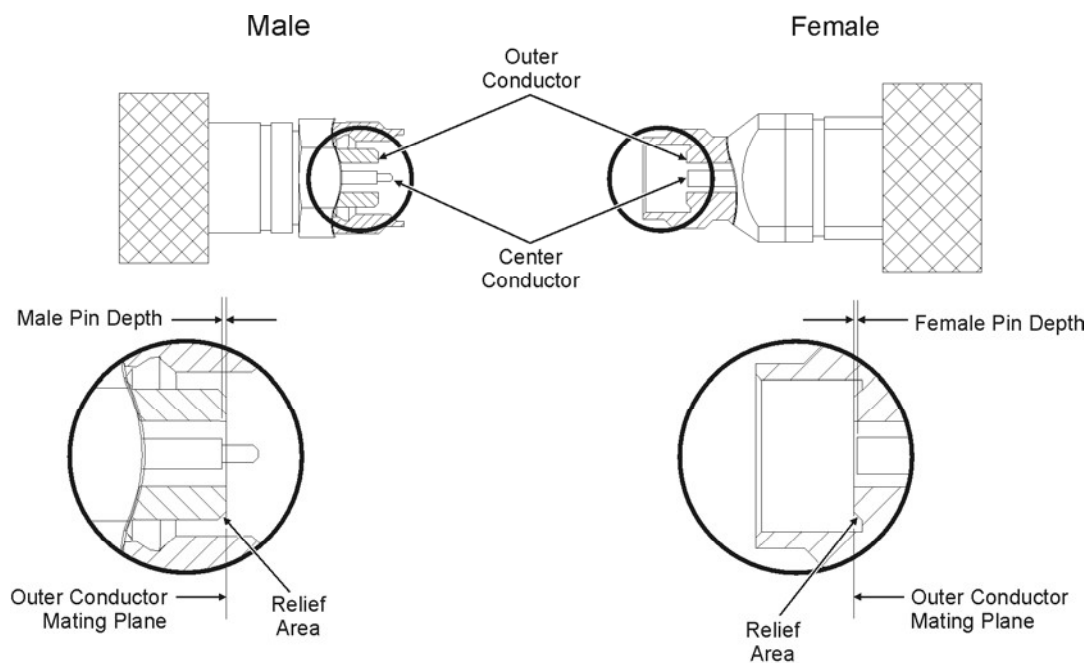
## Center Conductor Pin Depth

Center conductor pin depth is the distance the center conductor mating plane differs from being flush with the outer conductor mating plane. See Figure 2-1 The pin depth of a center conductor can be in one of two states: either protruding or recessed.

**Protrusion** is the condition in which the center conductor extends beyond the outer conductor mating plane. This condition will indicate a positive value on the connector gage.

**Recession** is the condition in which the center conductor is set back from the outer conductor mating plane. This condition will indicate a negative value on the connector gage.

**Figure 2-1 Connector Center-Conductor Pin Depth**



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**Table 2-3 Supplemental Characteristics (3 of 3)**

Precision Connector	Center-Conductor Pin Depth			
	Allowable Recession <sup>a</sup>		Allowable Protrusion	
	mm	in	mm	in
NMD-2.4 mm -f-	-0.0025 to -0.056	-0.0001 to -0.0022	0.0000	0.0000
NMD-3.5 mm -m-	-0.0025 to -0.0127	-0.0001 to -0.0005		
PSC-3.5 mm -f-				

a. Center conductor shoulder behind outer conductor mating plane.