

KEYSIGHT TECHNOLOGIES (AGILENT HP)

85131E

The Keysight 85131E is a high-performance 3.5 mm flexible cable set designed for use with vector network analyzers (VNAs). Operating from DC to 26.5 GHz, this set provides excellent phase and amplitude stability under flexure, making it ideal for precise, repeatable RF and microwave measurements.

SPECIFICATIONS

General & Configuration

Cable Type	Flexible
Set Configuration	Two-cable set
VNA-Side Connector (Both Cables)	NMD 3.5 mm (female)
DUT-Side Connector (Cable 1)	3.5 mm (male)
DUT-Side Connector (Cable 2)	Precision Slotless 3.5 mm (female) / PSC-3.5 f

Electrical Performance

Frequency Range	DC to 26.5 GHz
Nominal Impedance	50 Ω

Physical & Mechanical

Cable Length	96.5 cm (38 in)
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Electrical Specifications

Maximum SWR	1.35
Maximum Insertion Loss	1.5 dB

Mechanical Specifications

Minimum Bend Radius	76.2 mm
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Performance

Phase Stability with Bending	$< 0.12^\circ \times f + 0.13^\circ$, where f is frequency in GHz (at 7.6 cm bend radius)
Magnitude Stability with Bending	$< 0.009 \text{ dB} \times f + 0.01 \text{ dB}$, where f is frequency in GHz (at 7.6 cm bend radius)

TECHNOLOGY

RF & Microwave Coaxial Cables

APPLICATIONS

VNA Test Port Extension and Measurement

