Your calibration kit has been designed to withstand a moderate amount of physical stress. However, to retain its high precision performance you should treat it with care and prevent any mechanical shock.
It can be damaged if excessive force is applied to the connectors. Such a damage is considered as an abuse of the cal kit and will void the warranty when verified by our service professionals. When the kit is not in use, mount protective caps on the connectors such as the ones which came with the kit.
Store the kit in a shock-resistant environment.
Type N connectors may be connected finger tight. If a torque wrench is used, 12 lb-inch (136 N-cm) is recommended. For information on service and recertification go to

Temperature loading	operating temperature range	+5 °C to +40 °C
	storage temperature range	-40 °C to +70 °C, in line with EN 60068-2-1 and EN 60068-2-2
Recommended inspection interval		1 year

85514-90001

KEYSIGHT TECHNOLOGIES

Data Sheet
85514A
Cal Kit
Type-N(m) 50 Ω
DC to 9 GHz

Standard	Electrical Delay
Through	
male-male	241.167 ps

Standard	Offset Delay
Open	
male	53.882 ps

Standard	Offset Delay
Short	
male	53.385 ps

Standard	DC-Resistance
Load	
male	50 Ω ± 0.5 Ω

Standard	Return Loss (typical)		
Through	DC to 4 GHz	4 to 8 GHz	8 to 9 GHz
male-male	≥ 36 dB	≥ 31 dB	≥ 28 dB

Standard	C0 E-15 F	C1 E-27 F/Hz	C2 E-36 F/Hz²	C3 E-45 F/Hz³
Open				
male	-8.927	-105.823	585.235	-53.08

Standard	L0 E-12 H	L1 E-24 H/Hz	L2 E-33 H/Hz²	L3 E-42 H/Hz³
Short				
male	20.225	-1479.262	-591.4	63.326

Standard	Return Loss (spec)	
Load	DC to 6 GHz	6 to 9 GHz
male	≥ 42 dB	≥ 35 dB

Standard	Insertion Loss (typical)	
Through	DC to 4 GHz	4 to 9 GHz
male-male	≤ 0.05 dB	≤ 0.1 dB

Standard	Deviation from Nominal Phase (spec)	
Open	DC to 4 GHz	4 to 9 GHz
male	≤ 2.0°	≤ 3.0°

Standard	Deviation from Nominal Phase (spec)
Short	DC to 9 GHz
male	≤ 1.25°

Standard	Max. Power
Load	
male	0.5 W