

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 <http://na.tm.agilent.com/fieldfox> and click the "Repair & Calibration" tab.

Temperature loading	operating temperature range	+18 °C to +28 °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



85518-90001



Agilent Technologies

Data Sheet

85518A

Cal Kit

Type-N(m) 50 Ω

DC to 18 GHz

Standard	Electrical Delay
Through	
male-male	245.383 ps

Standard	Offset Delay
Open	
male	85.954 ps

Standard	Offset Delay
Short	
male	86.021 ps

Standard	DC-Resistance
Load	
male	50 Ω \pm 0.5 Ω

Standard	Return Loss (typical)		
Through	DC to 4 GHz	4 to 8 GHz	8 to 18 GHz
male-male	\geq 38 dB	\geq 34 dB	\geq 28 dB

Standard	C_0 E-15 F	C_1 E-27 F/Hz	C_2 E-36 F/Hz ²	C_3 E-45 F/Hz ³
Open				
male	8.471	-2513	171.3	-1.47

Standard	L_0 E-12 H	L_1 E-24 H/Hz	L_2 E-33 H/Hz ²	L_3 E-42 H/Hz ³
Short				
male	41.01	-13740	1386	-41.56

Standard	Return Loss (spec)		
Load	DC to 6 GHz	6 to 9 GHz	9 to 18 GHz
male	\geq 42 dB	\geq 35 dB	\geq 32 dB

Standard	Insertion Loss (typical)		
Through	0 to 18 GHz		
male-male	\leq 0.035 dB x sqrt (f/GHz)		

Standard	Deviation from Nominal Phase (spec)		
Open	DC to 6 GHz	6 to 9 GHz	9 to 18 GHz
male	\leq 2.0°	\leq 3.0°	\leq 4.0°

Standard	Deviation from Nominal Phase (spec)		
Short	DC to 6 GHz	6 to 9 GHz	9 to 18 GHz
male	\leq 1.5°	\leq 2.5°	\leq 3.0°

Standard	Max. Power		
Load			
male	0.5 W		

The information in this document can be found at www.agilent.com by searching for part number 85518-90001