

26.5 GHz Test Port Extension Cables

Spanawave's test port extension cables are the perfect alternative to over-priced models from other manufacturers. These test cables provide the utmost precision in vector measurements in the lab and during calibrations. Besides the electrical performance, these VNA cables are rugged and feature a lightweight armor to insure consistent performance over time. A wide variety of connectors are available including the precision "NMD" or "port ruggedized" connectors, which mate directly to the VNA port. Custom lengths and configurations are available. Please contact us for application help and pricing.



ELECTRICAL DATA	
Max Frequency:	26.5 GHz
Impedance:	50 Ω Nominal
Propagation Velocity:	86.5% Nominal
Time Delay:	1.17 ns/ft (3.84 ns/m)
Shielding Effectiveness:	-100 dB minimum (cable only)
Dielectric Withstanding Voltage:	10K VRMS
Capacitance:	24.5pF/ft (80.4 pF/m)

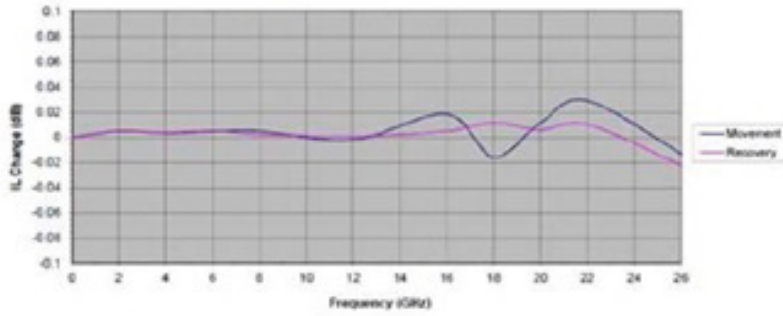
MECHANICAL DATA	
Finished Outer Diameter:	0.625 in (1.588 cm)
Static Bend Radius:	4.0 in (10.16 cm)
Weight with Standard Jacket/Armor:	0.18 lbs/ft (0.26 kg/m)
Max Assembly Length:	5 ft (1.52 m)
Crush Resistance:	250 lbs/linear in (44.6 kg/linear cm)
Operating Temperature Range:	-76 to 248° F (-60 to 120° C)

CABLE CONSTRUCTION	
Inner Conductor:	Solid Ag-plated Cu
Dielectric:	High Velocity PTFE
Standard Finish:	Metal Braid/ Metal Conduit

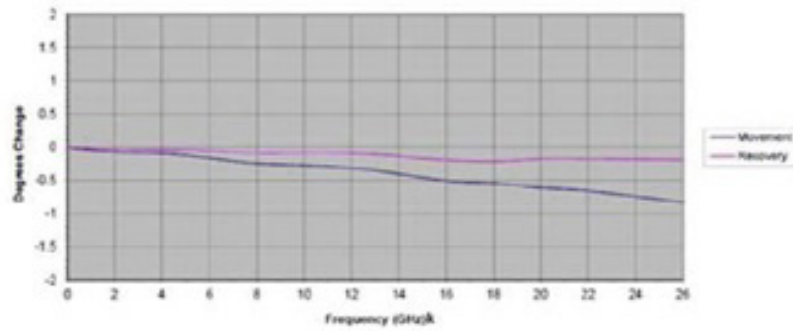
PART NO.	MAX. FREQ. (GHz)	LENGTH in. (cm)	TEST PORT CONNECTOR	DUT CONNECTOR
C5131C-FLEX	26.5	32 (81)	3.5mm (f) NMD	3.5mm (f)
C5131D-FLEX (Set of 2)	26.5	21 (53)	3.5mm (f) NMD	3.5mm (f)
	26.5	21 (53)	3.5mm (f) NMD	3.5mm (m)
C5131E	26.5	38 (96.5)	3.5mm (f) NMD	3.5mm (f)
C5131F (Set of 2)	26.5	24.5 (62.2)	3.5mm (f) NMD	3.5mm (f)
	26.5	24.5 (62.2)	3.5mm (f) NMD	3.5mm (m)
C5131G-FLEX	26.5	21 (53)	3.5mm (f) NMD	3.5mm (m)
C5131H	26.5	24.5 (62.2)	3.5mm (f) NMD	3.5mm (m)

FREQUENCY		ATTENUATION		CONN LOSS dB	VSWR
BAND	GHz	dB/ft	dB/m		
UHF	0.3	0.053	0.173	0.006	1.10
	0.5	0.068	0.225	0.009	
	0.8	0.087	0.287	0.012	
L	1.0	0.098	0.322	0.014	1.15
S	2.0	0.141	0.463	0.024	
	2.4	0.155	0.510	0.027	
	3.0	0.175	0.575	0.032	
C	4.0	0.204	0.671	0.040	
	6.0	0.255	0.836	0.055	
X	8.0	0.299	0.980	0.070	1.25
	10.0	0.338	1.110	0.084	1.30
	12.4	0.382	1.253	0.101	
Ku	15.0	0.426	1.397	0.118	1.35
	18.0	0.473	1.552	0.139	
K	20.0	0.503	1.649	0.152	
	22.0	0.532	1.744	0.165	
	24.0	0.559	1.835	0.178	
	26.5	0.593	1.946	0.194	

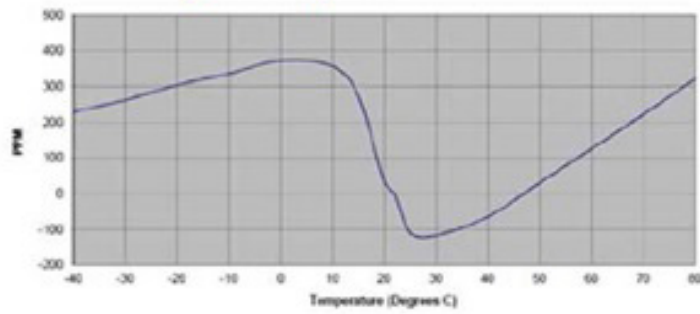
Amplitude Change vs. Flexure



Phase Change vs. Flexure



Phase Change vs. Temperature



Insertion Loss v. Temperature

