

# **HSB42® Series** 26.5 GHz Test Cable Assemblies with Excellent Phase and Amplitude Stability vs. Flexure



#### **FEATURES**



- Very flexible with bend radius of 1.95"
- Good performance even after 20,000 flex cycles
- Available with stainless steel armor
- Phase Stability vs. Flexure: ± 2.95°@ 26.5 GHz (When wrapped 360° around a 1.95" radius mandrel)
- Cable Insertion Loss: -.79 dB per Ft @ 26.5 GHz
- Excellent Amplitude Stability: ≤ ±0.1 dB through 26.5 GHz

#### **ELECTRICAL SPECIFICATIONS**

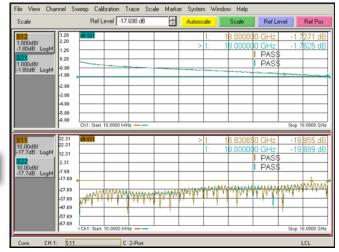
Max Frequency (GHz)	26.5				
Capacitance (pF/Ft)	29.4				
Velocity Propagation (%)	70				
RF Leakage @ 18 GHz (dB)	<-95				
Time Delay (ns/Ft)	1.40				
Impedance (Ohms)	50				
Frequency (GHz)	2	6	10	18	26.5
Power CW (Watts)	420	215	140	125	75
Phase Stability vs. Flexure (°)	±0.22	±0.67	±1.11	±2	±2.95

#### **MECHANICAL SPECIFICATIONS**

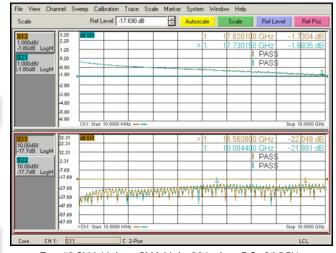
Cable Max Dia. (Inch)	0.195
Min. bend radius (Inch)	1.0
Recommend Bend Radius (Inch)	1.95
Raw Cable Temperature Range (°C)	-55 to +85

### **MATERIALS AND FINISHES**

DESCRIPTION	MATERIALS	FINISH OR COLOR
Cable Jacket	PVC	Blue
Marker	Mil-I-23053	White
Contacts	BeCu	Gold Plated
Insulators	PTFE	None
Connector Bodies	Stainless Steel	Passivated
Connector Nuts	Stainless Steel	Passivated
Gasket	Silicon Rubber	A-A-59588



Test #1: SMA Male to SMA Male, 30 inches, DC - 26.5GHz



Test #2 SMA Male to SMA Male, 30 inches, DC - 26.5GHz

## **HOW TO ORDER: HSB42-XX-XX-L\*\*\***

\*\*\*Example: HSB42-S1-S2-24

I. Cable Type

2. Connectors: (A&B) SMA Male = SI

SMA Female = S2

3. Length in Inches L = Inches