



HASCO, INC
COMPONENTS DISTRIBUTOR

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

FEATURES



- RoHs Compliant
- 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: $\pm 2.95^\circ$ @ 26.5 GHz
(When wrapped 360° around a 1.95" radius mandrel)
- Cable Insertion Loss: -0.79 dB per Ft @ 26.5 GHz
- Excellent Amplitude Stability: $\leq \pm 0.1$ 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 +105

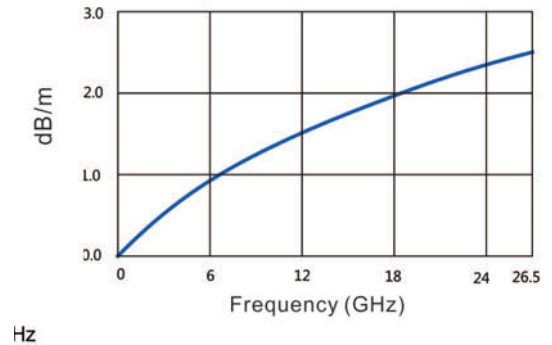
MATERIALS AND FINISHES

DESCRIPTION	MATERIALS	FINISH OR COLOR
Cable Jacket	PVC	Blue
Marker	Mil-I-23053	White
Inner Conductor	Copper	Solid Silver Plated
Interlayer	Polyester	Aluminum
Inner Braid	Flat Copper Strip	Silver Plated
Outer Braid	Copper Braid	Silver Plated
Dielectric	Solid PTFE	None
Connector Bodies/Nuts	Stainless Steel	Passivated
Gasket	Silicon Rubber	A-A-59588

Attenuation & Power Handling
@ +25°C and Sea Level

Frequency (MHz)	Attenuation (Typ.) (dB/m)	Max Power Handling (Watts)
1000	0.38	550
3000	0.69	350
5000	0.92	245
10000	1.36	140
18000	1.95	125
26500	2.59	90

Cable Attenuation
@ +25°C and Sea Level



Max RF Power
@ +25°C and Sea Level

