




**HASCO, INC**  
COMPONENTS DISTRIBUTOR

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## HSS45A® Series 40 GHz Low Loss Flexible Cable Assemblies with Good Phase Stability vs. Flexure

### FEATURES

- RoHs Compliant 
- Low Loss, Low VSWR, High Reliability
- Phase Stability Vs. Flexure:  $\pm 3.5^\circ$  @ 40 GHz  
(When wrapped 360° around a 2" diameter mandrel)
- VA Armor: With good results in Resist compression, Resist torsion, Waterproof and Dustproof
- Cable Insertion Loss: 1.59 dB per Ft @ 40 GHz
- Amplitude Stability:  $< \pm 0.4$  dB through 40 GHz

### ELECTRICAL SPECIFICATIONS

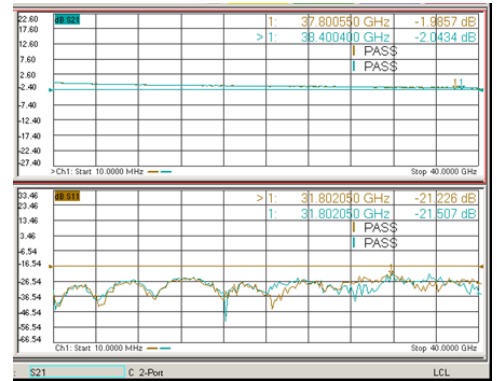
Max Frequency (GHz)	40				
Capacitance (pF/Ft)	96.4				
Velocity Propagation (%)	70				
RF Leakage @ 18 GHz (dB)	<-110				
Time Delay (ns/Ft)	1.4				
Impedance (Ohms)	50				
Frequency (GHz)	2	6	18	26.5	40
Power CW (Watts)	81	48	21	17	10
Phase Stability vs. Flexure (°)	$\pm 0.2$	$\pm 0.6$	$\pm 1.8$	$\pm 2.65$	$\pm 4.0$

### MECHANICAL SPECIFICATIONS

VA Armor Max Dia. (Inch)	0.256
Min. bend radius (Inch)	1
Recommend Bend Radius (Inch)	1.5
Raw Cable Temperature Range (°C)	-55 to +200

### MATERIALS AND FINISHES

DESCRIPTION	MATERIALS	FINISH OR COLOR
Cable Jacket	FEP	Blue
VA Armor	Stainless Steel Flat Spiral	Blue
Marker	Mil-I-23053	White
Inner Conductor	Copper	Silver Plated
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



Test #1: 2.92mm Male to 2.92mm Male, 24 inches, DC - 40 GHz

