



HASCO, INC
COMPONENTS DISTRIBUTOR

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HLL150® Series

40 GHz Ultra Low Loss Flexible Cable Assemblies with Excellent Phase Stability vs. Flexure & Temperature

FEATURES

- RoHS Compliant 
- Low Loss, Low VSWR, High Reliability
- Phase Stable over Temp: 500ppm Max @ -40°C ~ +85°C
- Phase Stability Vs. Flexure: $\pm 8^\circ$ @ 40 GHz
(When wrapped 360° around a 2" diameter mandrel)
- Available with Stainless Steel Armor
- Cable Insertion Loss: -0.75 dB per Ft @ 40 GHz
- Amplitude Stability: $< \pm 0.4$ dB through 40 GHz

ELECTRICAL SPECIFICATIONS

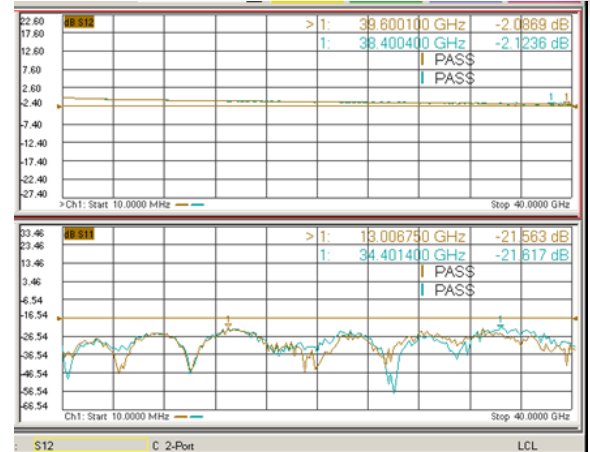
Max Frequency (GHz)	40				
Capacitance (pF/Ft)	24				
Velocity Propagation (%)	83				
RF Leakage @ 18 GHz (dB)	<-100				
Time Delay (ns/Ft)	1.2				
Impedance (Ohms)	50				
Frequency (GHz)	2	6	18	26.5	40
Power CW (Watts)	420	215	125	100	75
Phase Stability vs. Flexure (°)	± 0.4	± 1.2	± 3.6	± 5.3	± 8.0

MECHANICAL SPECIFICATIONS

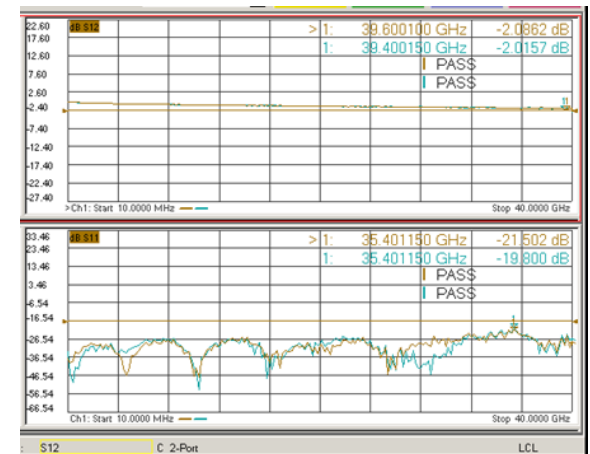
VA Armor Max Dia. (Inch)	0.15
Min. bend radius (Inch)	0.75
Recommend Bend Radius (Inch)	2.0
Raw Cable Temperature Range (°C)	-65 to +135

MATERIALS AND FINISHES

DESCRIPTION	MATERIALS	FINISH OR COLOR
Cable Jacket	FEP	Blue
Marker	Mil-I-23053	White
Contacts	Copper	Silver Plated
Insulators	Low Density 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



Test #2: 2.92mm Male to 2.92mm Male, 24 inches, DC - 40 GHz