HASCO, INC
COMPONENTS DISTRIBUTOR

(888) 498-3242 • www.hasco-inc.com

HLL150A® 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: ± 8° @ 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: -.75 dB per Ft @ 40 GHz
- Amplitude Stability: < ± 0. 4 dB through 40 GHz

ELECTRICAL SPECIFICATIONS

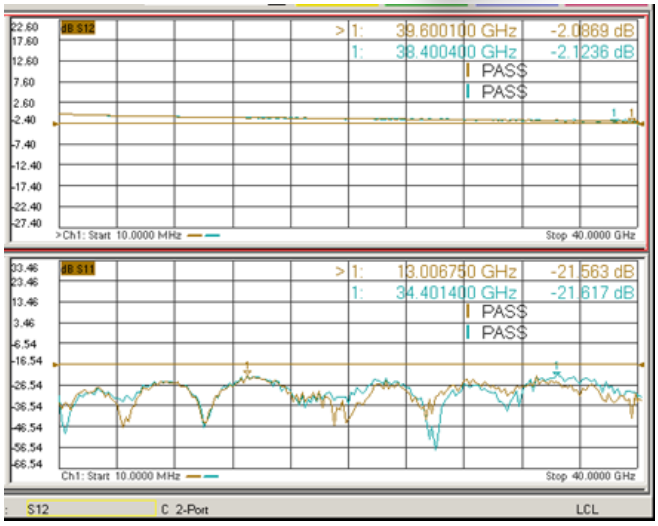
Max Frequency (GHz)	40				
Capacitance (pF/Ft)	24				
Velocity Propagation (%)	83				
RF Leakage @ 18 GHz (dB)	<-100				
Time Delay (ns/Ft)	1.2				
Impedance (Ohms)	50				
Frequency (GHz)	2	6	18	26.5	40
Power CW (Watts)	420	215	125	100	75
Phase Stability vs. Flexure (°)	±0.4	±1.2	±3.6	±5.3	±8.0

MECHANICAL SPECIFICATIONS

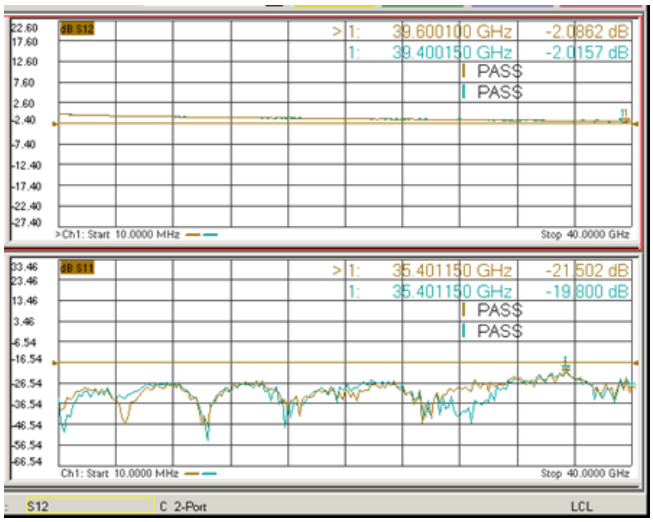
VA Armor Max Dia. (Inch)	0.322
Min. bend radius (Inch)	1.5
Recommend Bend Radius (Inch)	2.5
Raw Cable Temperature Range (°C)	-55 to +85

MATERIALS AND FINISHES

DESCRIPTION	MATERIALS	FINISH OR COLOR
Cable Jacket	FEP	Blue
VA Armor	Stainless Steel +PUR	Blue
Marker	Mil-I-23053	White
Contacts	BeCu	Gold Plated
Insulators	PEEK	None
Connector Bodies	Stainless Steel	Passivated
Connector 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

HOW TO ORDER: HLL150A-XX-XX-L***

1 2A 2B 3

***Example: HLL150A-29P-29J-24

1. Cable Type
2. Connectors: (A&B) 2.92mm Male = 29P; 2.92mm Female = 29J
3. Length in Inches L = Inches