



HASCO, INC
COMPONENTS DISTRIBUTOR

(888) 498-3242 • sales@hasco-inc.com



HLL125 Series • 67 GHz Ultra Low Loss Flexible Cable Assemblies with Excellent Phase Stability vs. Flexure & Temperature

FEATURES



- RoHs Compliant
- Low Loss, Low VSWR, High Reliability
- Temperature Range: -65°C ~ +200°C
- Phase Stability vs. Flexure: $\pm 15^\circ$ @ 67 GHz (When wrapped 360° around a 2" diameter mandrel)
- Cable Insertion Loss: -2.10 dB per Ft @ 67 GHz
- Amplitude Stability: $< \pm 0.2$ dB through 67 GHz

ELECTRICAL SPECIFICATIONS

Max Frequency (GHz)	67				
Capacitance (pF/Ft)	27				
Velocity Propagation (%)	75				
RF Leakage @ 18 GHz (dB)	>100				
Time Delay (ns/Ft)	1.35				
Impedance (Ohms)	50				
Frequency (GHz)	6	18	26.5	40	67
Power CW (Watts)	93	39	30	20	13
Phase Stability vs. Flexure ($^\circ$)	± 1.50	± 4.00	± 6.00	± 10.00	± 15.00

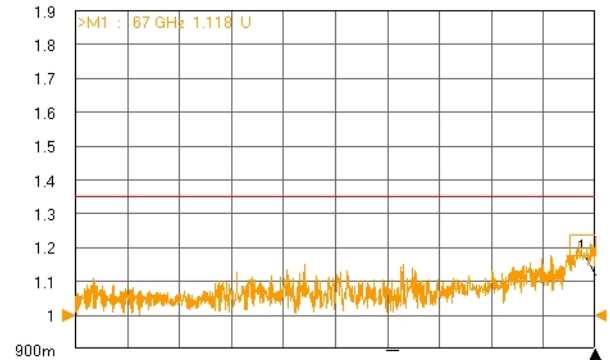
MECHANICAL SPECIFICATIONS

Cable Max Dia. (Inch)	0.110
Min. bend radius (Inch)	0.5
Recommend Bend Radius (Inch)	4.00"
Raw Cable Temperature Range ($^\circ$ C)	-65°C to +200°C

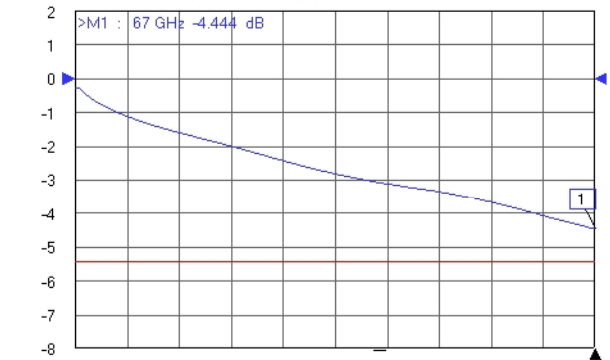
MATERIALS AND FINISHES

DESCRIPTION	MATERIALS	FINISH OR COLOR
Cable Jacket	FEP	Yellow
Marker	Mil-I-23053	White
Retaining Ring	BeCu	Gold Plated
Connector Bodies	Brass	Gold Plated
Connector Nuts	Stainless Steel	Passivated

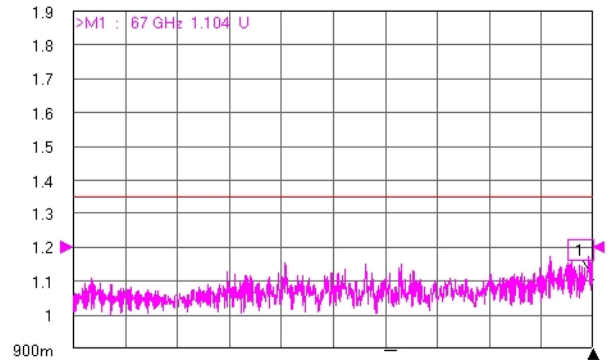
Tr1 S11 Refl SWR RefLvl: 1 U Res: 100 mU/Div



Tr2 S21 Trans LoqM RefLvl: 0 dB Res: 1 dB/Div



Tr4 S22 Refl SWR RefLvl: 1.2 U Res: 100 mU/Div



Test Data: 1.85mm Male to 1.85mm Male, 24 Inches, DC - 67GHz