



HLL142® Series

26.5 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: 250ppm Max @ +22°C ~ +100°C
- Phase Stability Vs. Flexure: $\pm 6.4^\circ$ @ 26.5 GHz
(When wrapped 360° around a 1.5" diameter mandrel)
- Available with Stainless Steel Armor
- Cable Insertion Loss: -.48 dB per Ft @ 26.5 GHz
- Amplitude Stability: $\pm \leq 0.3$ dB through 26.5 GHz

ELECTRICAL SPECIFICATIONS

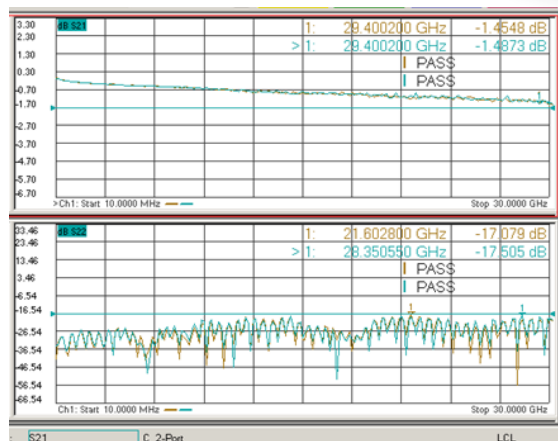
Max Frequency (GHz)	26.5				
Capacitance (pF/Ft)	25				
Velocity Propagation (%)	80				
RF Leakage @ 26.5 GHz (dB)	<-95				
Time Delay (ns/Ft)	1.26				
Impedance (Ohms)	50				
Frequency (GHz)	2	6	18	26.5	30
Power CW (Watts)	510	285	165	135	120
Phase Stability vs. Flexure (°)	± 0.4	± 1.2	± 3.6	± 5.3	± 6.4

MECHANICAL SPECIFICATIONS

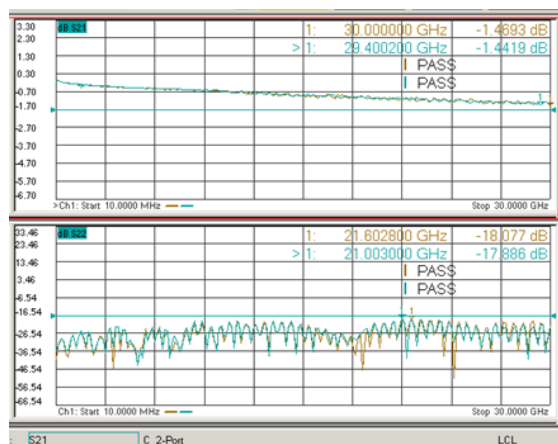
Cable Max Dia. (Inch)	0.195
Min. bend radius (Inch)	1.0
Recommend Bend Radius (Inch)	2.0
Raw Cable Temperature Range (°C)	-55 to +85

MATERIALS AND FINISHES

DESCRIPTION	MATERIALS	FINISH OR COLOR
Cable Jacket	FEP	Light Green
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: 3.5mm Male to 3.5mm Male, 24 inches, DC - 30 GHz



Test #2: 3.5mm Male to 3.5mm Male, 24 inches, DC - 30 GHz