



**HASCO, INC**  
COMPONENTS DISTRIBUTOR

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## 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:  $\leq \pm 0.3$  dB through 26.5 GHz

#### ELECTRICAL SPECIFICATIONS

Raw Cable Max Frequency (GHz)	26.5			
Capacitance (pF/Ft)	82			
Velocity Propagation (%)	80			
RF Leakage @ 18.0 GHz (dB)	95			
Time Delay (ns/Ft)	4.14			
Impedance (Ohms)	50			
Frequency (GHz)	2	6	18	26.5
Power CW (Watts)	510	285	165	135
Attenuation Typ. (dB/m)	0.271	0.661	0.825	1.469
Phase Stability vs. Flexure (°)	$\pm 0.4$	$\pm 1.2$	$\pm 3.6$	$\pm 5.3$

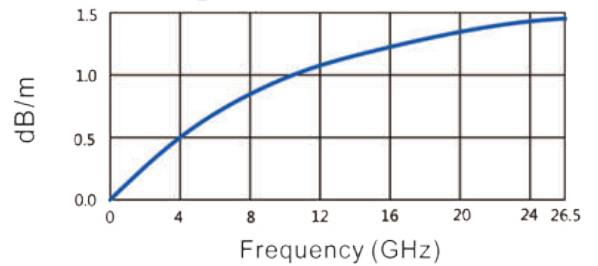
#### MECHANICAL SPECIFICATIONS

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 +200

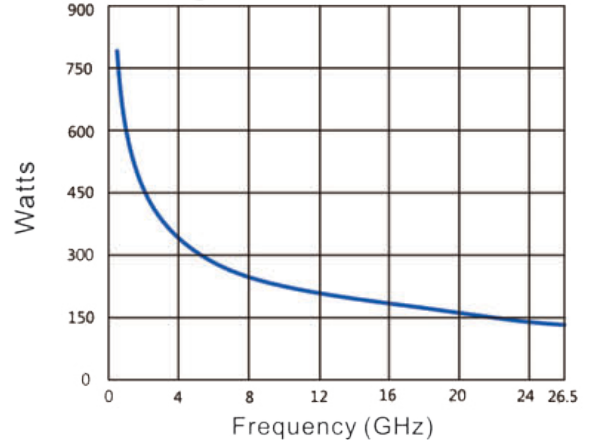
#### MATERIALS AND FINISHES

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

**Cable Attenuation**  
@ +25°C and Sea Level



**Max RF Power**  
@ +25°C and Sea Level



**Phase Change vs. Temperature**

