



HASCO, INC
COMPONENTS DISTRIBUTOR

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HLL142® Series

18 GHz Low Loss Cable Assemblies

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: $\pm 3.6^\circ$ @ 18 GHz
(When wrapped 360° around a 1.5" diameter mandrel)
- Available with Stainless Steel Armor
- Cable Insertion Loss: -48 dB per Ft @ 18 GHz
- Amplitude Stability: $\leq \pm 0.3$ dB through 18 GHz

ELECTRICAL SPECIFICATIONS

Raw Cable Max Frequency (GHz)	30			
Capacitance (pF/Ft)	82			
Velocity Propagation (%)	80			
Shielding Effectiveness @18GHz (dB)	95			
Time Delay (ns/Ft)	4.14			
Impedance (Ohms)	50			
Frequency (GHz)	2	6	10	18
Power CW (Watts)	510	285	220	165
Attenuation Typ. (dB/m)	0.271	0.661	0.825	1.188
Phase Stability vs. Flexure (°)	± 0.4	± 1.2	± 2	± 3.6

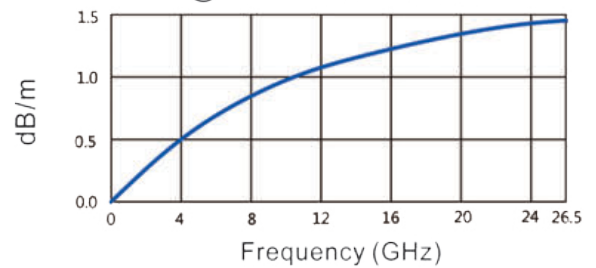
MECHANICAL SPECIFICATIONS

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

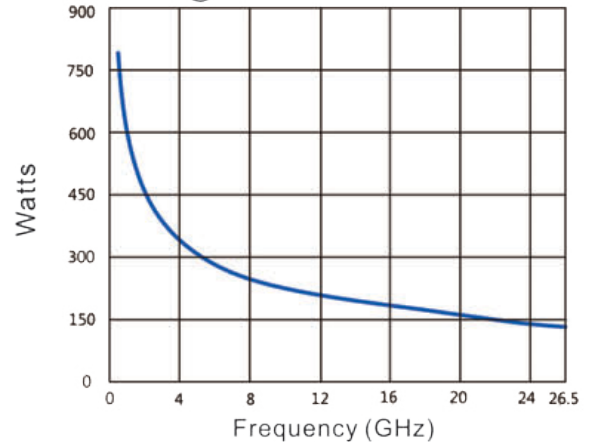
MATERIALS AND FINISHES

DESCRIPTION	MATERIALS	FINISH OR COLOR
Cable Jacket	FEP	Light Green
Marker	Mil-I-23053	Black or White
Contacts	Brass or BeCu	Gold Plated
Insulators	PTFE	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

