

Part No:

# HLL142



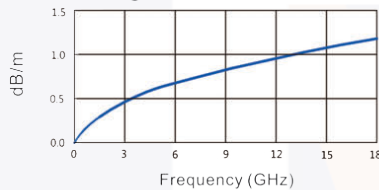
## HLL142A Low Loss Flexible Cable Series - 18 GHz

### Features

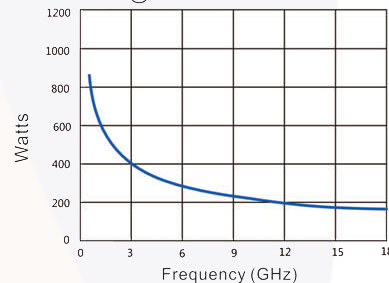
- RoHS Compliant 
- Low Loss, Low VSWR, High Reliability
- Phase Stable over Temp: 250ppm Max @ 22°C ~ 100°C
- Phase Stable vs. Flexure:  $\pm 3.6^\circ$  @ 18 GHz  
(When wrapped 360° around a 1.5" diameter mandrel)

The HASCO **HLL142** is a Low Loss Flexible Cable Series that is phase stable over temperature and phase stable vs. flexure. Available with SMA Male to SMA Male, SMA Male to SMA Female, SMA Male to Type N Male, SMA Male to Type N Female, Type N Male to Type N Male, Type N Male to Type N Female connectors and rated to 18 GHz.

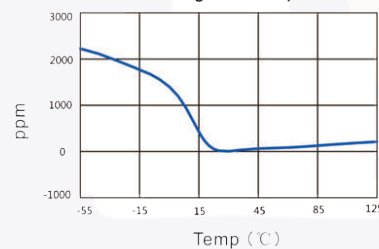
**Cable Attenuation**  
@ +25°C and Sea Level



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



**Phase Change vs. Temperature**



### Electrical

• Impedance	50 Ohms		
• Frequency Range	DC - 18 GHz		
• VSWR	1.35:1 Max		
• Insertion Loss	-0.48 dB/ft @ 26.5 GHz		
• Amplitude Stability	$\leq \pm 0.3$ dB thru 26.5 GHz		
• Velocity of Propagation	80%		
• Capacitance	82 pF/ft		
• Time Delay	4.14 ns/ft		
• Power CW	510 W @ 2 GHz	285 W @ 6 GHz	165 W @ 18 GHz
• Phase Stability vs. Flexure	$\pm 0.4^\circ$	$\pm 1.2^\circ$	$\pm 3.6^\circ$
• Shielding Effectiveness	< 95 dB @ 18 GHz		

### Mechanical

- Min Bend Radius 1.0 inch
- Recommended Bend Radius 2.0 inch

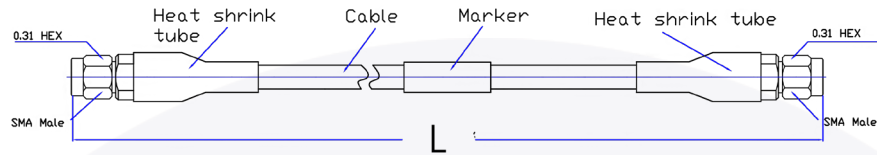
### Environmental

- Temperature Range -55°C to 85°C

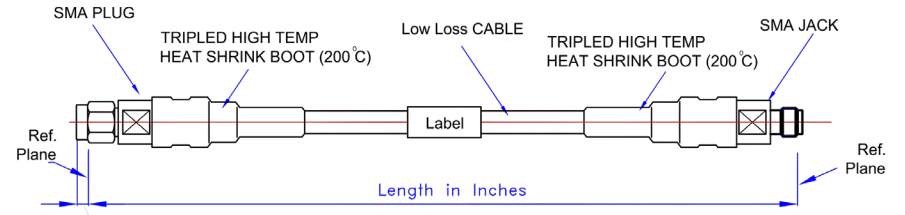
### Material

- Connector Body & Nut Passivated Stainless Steel
- Gasket Silicon
- Dielectric PTFE
- Center Contact Gold Plated BeCu
- Cable Jacket FEP

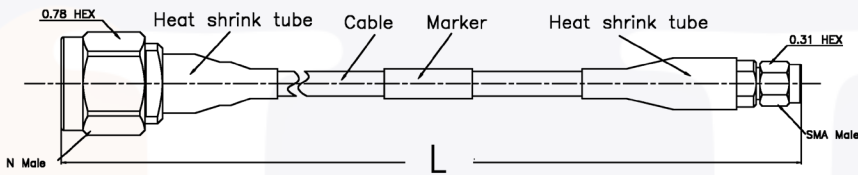
SMA Male to SMA Male



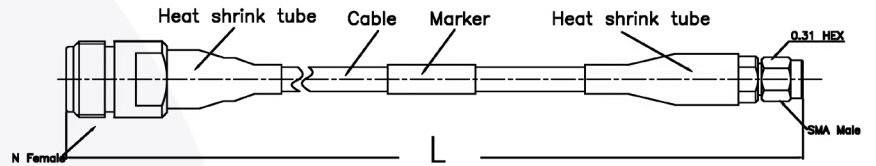
SMA Male to SMA Female



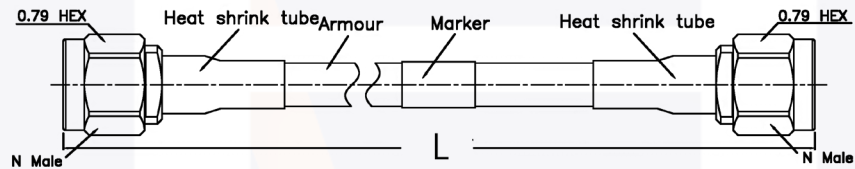
SMA Male to Type N Male



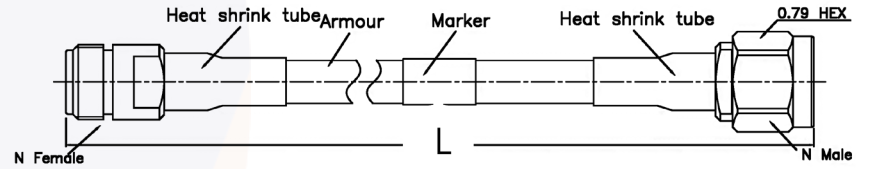
SMA Male to Type N Female



Type N Male to Type N Male



Type N Male to Type N Female



LTR	DESCRIPTION	DATE	APPR.	DRAWN BY: NS	REVIEWED BY: JS
-	RELEASE	6/15	TC		APPROVED BY: TC
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MATERIALS:  
SEE DATA SHEET

CAGE CODE:  
0T8L4

SCALE:  
N/A

SIZE:  
A

FINISHES:  
SEE DATA SHEET

PART NO./DRAWING NO.

**HLL142**

REV:  
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